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Area Wage Survey

Buffalo, New York, Metropolitan Area October 1982

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U.S. Department of Labor
Bureau of Labor Statistics

Bulletin 3015-56

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Preface

This bulletin provides results of an October 1982 survey of occupational earnings in the Buffalo, N.Y., Standard Metropolitan Statistical Area. The survey was made as part of the Bureau of Labor Statistics' annual area wage survey program. It was conducted by the Bureau's regional office in New York, N.Y., under the general direction of Robert M. Findlay, Assistant Regional Commissioner for Operations. The survey could not have been accomplished without the cooperation of the many firms whose wage and salary data provided the basis for the statistical information in this bulletin. The Bureau wishes to express sincere appreciation for the cooperation received.

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Note:

Reports on occupational earnings and supplementary wage benefits in the Buffalo area are available for the department stores (June 1981), hospitals (October 1981), and industrial chemicals (May 1981) industries. These reports are available from the Bureau's Regional Offices. Regional Offices also have available five summary releases: *Occupational Earnings and Wage Trends in Metropolitan Areas* (3 parts); *Occupational Earnings in All Metropolitan Areas* (combined); and *Wage Differences Among Metropolitan Areas.*

A summary bulletin, *Area Wage Surveys, Selected Metropolitan Areas,* provides wage data for the 70 areas in the Area Wage Survey program. This annual bulletin may be purchased from the Superintendent of Documents or from BLS Regional Offices.

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Area Wage Survey

Buffalo, New York, Metropolitan Area October 1982

U.S. Department of Labor
Raymond J. Donovan, Secretary

Bureau of Labor Statistics
Janet L. Norwood,
Commissioner

December 1982

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Introduction

This area is 1 of 72 in which the U.S. Department of Labor's Bureau of Labor Statistics conducts surveys of occupational earnings and related benefits. (See list of areas on inside back cover.) In each area, earnings data for selected occupations (A-series tables) are collected annually. Information on establishment practices and supplementary wage benefits (B-series tables) is obtained every third year. This report has no B-series tables.

A major consideration in the area wage survey program is the need to describe the level and movement of wages in a variety of labor markets, through the analysis of (1) the level and distribution of wages by occupation, and (2) the movement of wages by occupational category and skill level. The program develops information that may be used for many purposes, including wage and salary administration, collective bargaining, and assistance in determining plant location. Survey results also are used by the U.S. Department of Labor to make wage determinations under the Service Contract Act of 1965.

A-series tables

Tables A-1 through A-6 provide estimates of straight-time weekly or hourly earnings for workers in occupations common to a variety of manufacturing and nonmanufacturing industries. Where possible, occupations with related duties (e.g. accounting clerks and payroll clerks) are clustered to facilitate comparison. The occupations are defined in appendix B. For the 31 largest survey areas, tables A-12 through A-17 provide similar data for establishments employing 500 workers or more.

Table A-7 provides indexes and percent changes in average hourly earnings for office clerical workers, electronic data processing workers, industrial nurses, skilled maintenance trades workers, and unskilled plant workers. Where possible, data are presented for all industries and for manufacturing and nonmanufacturing separately. Data are not presented for skilled maintenance workers in nonmanufacturing because the number of workers employed in this occupational group in nonmanufacturing is too small to warrant separate presentation. This table provides a measure of wage trends after elimination of changes in average earnings caused by employment shifts among establishments as well as turnover of establishments included in survey samples. For further details, see appendix A.

Tables A-8 through A-11 provide measures of pay relationships in establishments. These measures may differ considerably from the pay relationships of overall area averages published in tables A-1 through A-6. See appendix A for details.

Appendixes

Appendix A describes the methods and concepts used in the area wage survey program and provides information on the scope of the survey.

Appendix B provides job descriptions used by Bureau field representatives to classify workers by occupation.

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Table A-1. Weekly earnings of office workers in Buffalo, N.Y., October 1982

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[1]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[2]	Median[3]	Middle range[3]	120 and under 130	130 - 140	140 - 150	150 - 160	160 - 170	170 - 180	180 - 190	190 - 200	200 - 220	220 - 240	240 - 260	260 - 280	280 - 300	300 - 340	340 - 380	380 - 420	420 - 460	460 - 500	500 - 540	540 - 580	580 - 620
Secretaries	1,539	39.0	300.00	280.00	242.50- 346.00	-	-	4	2	4	17	8	64	121	131	219	202	162	194	156	92	87	35	25	10	6
Manufacturing	927	39.5	323.00	302.50	259.50- 370.00	-	-	-	-	-	4	-	-	33	66	131	117	99	142	130	80	63	27	21	8	6
Nonmanufacturing	612	37.5	264.50	249.00	211.00- 290.00	-	-	4	2	4	13	8	64	88	65	88	85	63	52	26	12	24	8	4	2	-
Transportation and utilities	63	39.0	375.00	423.50	284.00- 425.00	-	-	-	-	-	-	-	-	3	4	4	1	7	3	2	6	23	8	2	-	-
Secretaries I	235	38.5	251.50	233.50	199.50- 303.50	-	-	-	-	-	11	4	50	24	31	21	18	12	46	18	-	-	-	-	-	-
Nonmanufacturing	127	37.5	211.50	199.50	195.00- 224.50	-	-	-	-	-	11	4	50	24	17	11	10	-	-	-	-	-	-	-	-	-
Secretaries II	359	38.5	267.00	268.50	230.00- 285.00	-	-	4	2	4	4	2	-	50	45	55	94	44	8	26	21	-	-	-	-	-
Manufacturing	181	39.5	287.50	274.50	242.50- 353.00	-	-	-	-	-	4	-	-	14	26	17	46	26	2	26	20	-	-	-	-	-
Nonmanufacturing	178	37.5	246.00	246.00	215.00- 275.00	-	-	4	2	4	-	2	-	36	19	38	48	18	6	-	1	-	-	-	-	-
Secretaries III	486	39.0	311.50	295.50	254.50- 353.00	-	-	-	-	-	-	2	3	20	54	78	46	61	61	70	44	24	10	13	-	-
Manufacturing	360	39.5	325.00	302.50	261.50- 373.00	-	-	-	-	-	-	-	-	3	26	57	33	55	50	51	40	24	10	11	-	-
Nonmanufacturing	126	37.5	273.50	253.00	230.00- 321.50	-	-	-	-	-	-	2	3	17	28	21	13	6	11	19	4	-	-	2	-	-
Secretaries IV	328	39.0	333.50	322.00	275.00- 402.00	-	-	-	-	-	-	-	11	27	-	40	18	30	74	32	23	42	17	5	9	-
Manufacturing	223	39.5	349.50	338.00	275.00- 424.00	-	-	-	-	-	-	-	-	16	-	31	15	6	44	32	20	32	17	3	7	-
Nonmanufacturing	105	37.5	299.00	290.00	240.00- 326.50	-	-	-	-	-	-	-	11	11	-	9	3	24	30	-	3	10	-	2	2	-
Secretaries V	90	38.5	338.00	275.00	259.50- 425.00	-	-	-	-	-	2	-	-	-	-	23	24	6	2	9	1	8	1	7	1	6
Manufacturing	55	39.5	368.00	275.00	259.50- 478.50	-	-	-	-	-	-	-	-	-	-	16	15	-	-	3	-	7	-	7	1	6
Stenographers	302	38.5	272.50	254.50	214.00- 356.50	-	-	-	2	4	1	5	21	72	24	48	21	14	8	70	1	4	5	2	-	-
Manufacturing	104	40.0	300.00	265.50	214.50- 372.50	-	-	-	-	4	-	-	6	25	11	4	5	-	-	37	1	4	5	2	-	-
Stenographers I	175	38.5	242.50	216.50	202.00- 248.00	-	-	-	2	4	1	5	21	72	24	6	13	-	8	8	1	3	5	2	-	-
Manufacturing	72	40.0	269.00	226.00	213.00- 270.50	-	-	-	-	4	-	-	6	25	11	4	5	-	-	6	1	3	5	2	-	-
Stenographers II	127	38.5	314.00	291.00	257.50- 367.50	-	-	-	-	-	-	-	-	-	-	42	8	14	-	62	-	1	-	-	-	-
Transcribing-machine typists	88	39.5	261.00	246.00	236.00- 278.00	-	-	-	-	-	4	-	2	7	11	23	24	4	4	9	-	-	-	-	-	-
Typists	495	38.5	205.50	194.50	170.00- 223.00	-	12	6	11	69	71	43	52	84	64	41	8	19	4	5	-	1	1	4	-	-
Manufacturing	201	39.0	207.00	188.50	170.00- 224.00	-	-	-	-	32	39	30	15	23	34	-	4	19	1	2	-	1	1	-	-	-
Nonmanufacturing	294	38.0	204.50	195.00	171.00- 220.50	-	12	6	11	37	32	13	37	61	30	41	4	-	3	3	-	-	-	4	-	-
Typists I	394	38.5	199.50	193.50	173.00- 221.50	-	12	6	11	35	60	42	49	77	50	36	-	15	1	-	-	-	-	-	-	-
Manufacturing	187	39.0	200.00	188.50	170.00- 221.50	-	-	-	-	32	39	30	15	21	34	-	-	15	1	-	-	-	-	-	-	-
Nonmanufacturing	207	38.0	199.00	201.00	179.00- 220.00	-	12	6	11	3	21	12	34	56	16	36	-	-	-	-	-	-	-	-	-	-
Typists II	101	38.5	229.00	206.00	169.00- 260.00	-	-	-	-	34	11	1	3	7	14	5	8	4	3	5	-	1	1	4	-	-
Nonmanufacturing	87	38.0	217.00	176.50	166.50- 220.50	-	-	-	-	34	11	1	3	5	14	5	4	-	3	3	-	-	-	4	-	-
File clerks	139	38.0	192.50	189.00	162.00- 216.00	6	7	15	4	10	12	18	-	41	8	13	-	-	5	-	-	-	-	-	-	-
Nonmanufacturing	134	38.0	188.00	186.00	162.00- 212.00	6	7	15	4	10	12	18	-	41	8	13	-	-	-	-	-	-	-	-	-	-
File clerks I	67	38.0	164.00	166.50	143.00- 183.00	6	7	11	-	10	11	18	-	4	-	-	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	67	38.0	164.00	166.50	143.00- 183.00	6	7	11	-	10	11	18	-	4	-	-	-	-	-	-	-	-	-	-	-	-
Messengers	112	39.0	186.00	170.00	148.00- 217.50	2	16	14	4	12	14	2	3	24	12	3	3	1	2	-	-	-	-	-	-	-
Nonmanufacturing	71	37.5	178.00	170.00	152.00- 211.00	2	2	14	4	12	14	2	1	8	8	3	-	1	-	-	-	-	-	-	-	-
Switchboard operators	94	37.5	209.00	200.00	144.50- 246.50	6	-	18	12	2	1	5	-	11	10	13	6	-	4	2	4	-	-	-	-	-
Nonmanufacturing	78	37.0	187.50	181.00	142.00- 223.50	6	-	18	12	2	1	5	-	11	10	9	2	-	-	2	-	-	-	-	-	-

See footnotes at end of tables.

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Table A-1. Weekly earnings of office workers in Buffalo, N.Y., October 1982 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[1]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[2]	Median[2]	Middle range[3]	120 and under 130	130 – 140	140 – 150	150 – 160	160 – 170	170 – 180	180 – 190	190 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 340	340 – 380	380 – 420	420 – 460	460 – 500	500 – 540	540 – 580	580 – 620
Switchboard operator-receptionists	295	38.5	222.00	212.00	170.00– 254.00	–	–	9	–	48	35	13	28	37	40	25	17	–	30	2	4	5	–	2	–	–
Manufacturing	159	38.5	243.50	230.00	216.00– 262.50	–	–	–	–	–	16	–	10	24	38	24	16	–	25	2	4	–	–	–	–	–
Nonmanufacturing	136	39.0	196.50	179.00	160.00– 194.00	–	–	9	–	48	19	13	18	13	2	1	1	–	5	–	–	5	–	2	–	–
Order clerks	195	39.0	236.00	223.00	206.00– 289.00	–	2	4	2	2	–	24	–	50	27	28	2	49	5	–	–	–	–	–	–	–
Manufacturing	152	39.5	243.50	238.50	215.00– 289.00	–	–	–	–	–	–	6	–	45	27	28	2	44	–	–	–	–	–	–	–	–
Order clerks I	180	39.0	233.00	223.00	206.00– 265.50	–	2	4	2	2	–	24	–	45	27	28	2	44	–	–	–	–	–	–	–	–
Manufacturing	152	39.5	243.50	238.50	215.00– 289.00	–	–	–	–	–	–	6	–	45	27	28	2	44	–	–	–	–	–	–	–	–
Accounting clerks	1,461	39.0	232.50	221.00	183.50– 255.00	–	4	37	62	126	106	156	77	137	230	198	84	49	74	50	10	25	11	25	–	–
Manufacturing	638	39.5	267.50	247.50	209.50– 294.00	–	–	–	–	13	15	54	14	83	103	115	44	43	59	38	9	12	11	25	–	–
Nonmanufacturing	823	38.5	205.50	190.00	169.00– 232.00	–	4	37	62	113	91	102	63	54	127	83	40	6	15	12	1	13	–	–	–	–
Transportation and utilities	55	40.0	331.00	337.00	253.50– 377.00	–	–	–	–	–	–	4	–	4	6	–	1	4	10	12	1	13	–	–	–	–
Accounting clerks I	109	38.5	188.00	173.00	162.00– 187.50	–	–	3	20	11	31	17	7	1	8	3	–	7	1	–	–	–	–	–	–	–
Nonmanufacturing	58	38.0	173.50	162.00	159.00– 177.00	–	–	3	20	11	16	1	1	1	1	3	–	–	1	–	–	–	–	–	–	–
Accounting clerks II	597	39.0	208.00	189.00	171.00– 235.00	–	4	14	42	81	55	108	34	52	75	46	27	13	30	15	–	–	1	–	–	–
Manufacturing	203	39.5	244.00	226.00	204.00– 277.00	–	–	–	–	13	–	22	4	24	57	19	14	12	25	12	–	–	1	–	–	–
Nonmanufacturing	394	38.5	189.50	183.50	167.00– 200.00	–	4	14	42	68	55	86	30	28	18	27	13	1	5	3	–	–	–	–	–	–
Accounting clerks III	627	38.5	243.00	232.00	200.00– 255.00	–	–	20	–	34	20	31	36	82	139	141	35	19	25	4	3	13	–	25	–	–
Manufacturing	292	39.0	267.00	247.50	209.50– 260.00	–	–	–	–	–	–	16	4	59	39	96	14	14	20	3	2	–	–	25	–	–
Nonmanufacturing	335	38.0	222.50	221.00	186.00– 240.00	–	–	20	–	34	20	15	32	23	100	45	21	5	5	1	1	13	–	–	–	–
Transportation and utilities	26	40.0	370.00	418.50	299.00– 447.00	–	–	–	–	–	–	–	–	1	3	–	–	4	3	1	1	13	–	–	–	–
Accounting clerks IV	128	39.5	334.00	323.50	278.00– 364.00	–	–	–	–	–	–	–	–	2	8	8	22	10	18	31	7	12	10	–	–	–
Manufacturing	92	39.5	357.00	350.50	291.00– 406.50	–	–	–	–	–	–	–	–	–	–	–	16	10	14	23	7	12	10	–	–	–
Payroll clerks	224	39.5	291.50	275.00	206.00– 331.00	–	–	–	1	4	–	46	1	34	5	16	25	9	34	16	–	3	8	–	22	–
Manufacturing	173	39.5	302.00	278.00	189.50– 337.00	–	–	–	–	–	–	44	–	23	–	11	19	4	31	9	–	2	8	–	22	–
Nonmanufacturing	51	39.0	255.50	240.00	208.00– 295.00	–	–	–	1	4	–	2	1	11	5	5	6	5	3	7	–	1	–	–	–	–
Key entry operators	646	39.5	242.00	224.00	183.50– 269.50	–	–	8	33	48	50	69	51	48	50	88	56	41	27	37	5	15	14	1	5	–
Manufacturing	347	40.0	279.00	259.00	227.00– 300.00	–	–	–	–	–	–	18	25	35	34	70	53	25	17	32	5	13	14	1	5	–
Nonmanufacturing	299	38.5	199.50	183.50	167.00– 214.50	–	–	8	33	48	50	51	26	13	16	18	3	16	10	5	–	2	–	–	–	–
Transportation and utilities	34	40.0	295.50	313.50	242.00– 338.00	–	–	–	–	–	–	–	–	–	8	8	–	–	10	5	–	2	–	–	–	–
Key entry operators I	379	39.5	217.00	199.00	171.50– 254.00	–	–	8	31	44	45	42	24	12	30	62	44	15	8	10	4	–	–	–	–	–
Manufacturing	173	39.5	254.50	254.00	235.50– 269.50	–	–	–	–	–	–	18	10	5	15	53	41	14	8	5	4	–	–	–	–	–
Nonmanufacturing	206	39.0	185.50	171.50	166.00– 191.50	–	–	8	31	44	45	24	14	7	15	9	3	1	–	5	–	–	–	–	–	–
Key entry operators II	267	39.0	277.50	252.00	200.00– 338.00	–	–	–	2	4	5	27	27	36	20	26	12	26	19	27	1	15	14	1	5	–
Manufacturing	174	40.0	303.00	286.50	207.50– 356.50	–	–	–	–	–	–	–	15	30	19	17	12	11	9	27	1	13	14	1	5	–
Nonmanufacturing	93	38.0	230.00	199.50	186.00– 283.00	–	–	–	2	4	5	27	12	6	1	9	–	15	10	–	–	2	–	–	–	–

See footnotes at end of tables.

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Table A-2. Weekly earnings of professional and technical workers in Buffalo, N.Y., October 1982

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[1]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[2]	Median[2]	Middle range[2]	180 and under 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 460	460 – 480	480 – 500	500 – 540	540 – 580	580 – 620	620 – 660	660 and over
Computer systems analysts (business)	280	39.5	480.50	484.50	406.50– 550.00	–	–	–	–	–	–	1	20	18	9	14	23	20	9	37	13	31	41	19	19	6
Manufacturing	210	39.5	494.50	489.00	430.50– 563.00	–	–	–	–	–	–	–	17	14	–	4	14	17	8	26	8	26	35	16	19	6
Nonmanufacturing	70	38.5	438.00	417.00	380.00– 485.50	–	–	–	–	–	–	1	3	4	9	10	9	3	1	11	5	5	6	3	–	–
Computer systems analysts (business) II	136	39.0	451.00	435.50	365.50– 539.00	–	–	–	–	–	–	–	17	16	4	7	10	17	5	18	4	4	22	5	6	1
Manufacturing	108	39.5	461.50	456.00	359.00– 548.50	–	–	–	–	–	–	–	17	14	–	–	6	14	4	12	3	4	22	5	6	1
Computer systems analysts (business) III	108	39.5	542.50	538.00	487.50– 582.00	–	–	–	–	–	–	–	–	–	–	1	4	–	–	19	7	27	19	14	12	5
Manufacturing	81	40.0	555.50	557.00	509.50– 611.00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14	4	22	13	11	12	5
Computer programmers (business)	438	38.5	368.50	359.50	307.00– 422.50	–	–	16	3	22	48	59	39	32	38	42	23	52	19	11	7	15	2	2	8	–
Manufacturing	210	40.0	389.50	382.50	316.50– 433.50	–	–	–	–	6	24	35	10	14	10	22	15	34	10	8	1	9	2	2	8	–
Nonmanufacturing	228	38.0	349.00	342.00	297.50– 394.00	–	–	16	3	16	24	24	29	18	28	20	8	18	9	3	6	6	–	–	–	–
Computer programmers (business) I	104	39.0	293.50	297.50	276.00– 307.00	–	–	4	3	20	34	35	6	1	1	–	–	–	–	–	–	–	–	–	–	–
Computer programmers (business) II	203	39.0	354.50	348.50	318.50– 384.00	–	–	12	–	2	14	24	33	28	25	24	13	12	10	3	1	1	1	–	–	–
Manufacturing	97	40.0	383.00	382.50	342.00– 417.50	–	–	–	–	–	6	12	4	11	10	20	10	9	10	2	1	1	1	–	–	–
Nonmanufacturing	106	38.0	328.00	332.50	309.50– 358.00	–	–	12	–	2	8	12	29	17	15	4	3	3	–	1	–	–	–	–	–	–
Computer programmers (business) III	128	38.5	447.50	431.00	399.50– 474.00	–	–	–	–	–	–	–	–	3	12	18	10	39	9	8	6	13	1	1	8	–
Manufacturing	57	39.5	475.50	438.50	422.50– 518.50	–	–	–	–	–	–	–	–	3	–	2	5	24	–	6	–	7	1	1	8	–
Nonmanufacturing	71	37.5	425.50	424.00	394.00– 445.00	–	–	–	–	–	–	–	–	–	12	16	5	15	9	2	6	6	–	–	–	–
Computer operators	296	39.5	359.50	332.50	269.00– 419.50	2	27	8	17	24	20	33	30	15	20	23	5	7	–	4	14	7	29	10	1	–
Manufacturing	212	40.0	386.50	358.00	307.00– 493.00	–	4	2	10	17	14	24	29	8	18	18	3	7	–	–	14	4	29	10	1	–
Nonmanufacturing	84	38.5	291.00	269.00	216.50– 347.00	2	23	6	7	7	6	9	1	7	2	5	2	–	–	4	–	3	–	–	–	–
Computer operators I	53	39.0	258.00	231.00	212.00– 274.50	2	22	5	8	4	–	2	–	–	2	8	–	–	–	–	–	–	–	–	–	–
Computer operators II	154	39.0	333.00	315.50	289.50– 349.50	–	5	3	9	20	17	29	28	9	8	12	2	1	–	–	2	2	3	6	–	–
Manufacturing	121	39.5	342.00	321.50	299.00– 369.00	–	4	2	4	13	14	22	25	5	6	12	–	1	–	–	2	2	3	6	–	–
Computer operators III	89	39.5	485.50	493.00	371.50– 552.00	–	–	–	–	–	3	2	4	6	10	3	3	6	–	4	12	5	26	4	1	–
Manufacturing	74	40.0	479.00	493.00	385.00– 552.00	–	–	–	–	–	–	–	4	3	10	3	3	6	–	–	12	2	26	4	1	–
Drafters	839	39.5	370.00	352.00	294.00– 441.50	1	9	44	50	53	99	53	69	85	38	37	45	32	28	64	8	74	37	6	7	–
Manufacturing	738	39.5	375.50	352.00	297.50– 454.00	–	4	34	36	41	93	50	60	79	35	32	42	26	25	55	7	71	35	6	7	–
Nonmanufacturing	101	40.0	331.00	316.00	255.00– 413.00	1	5	10	14	12	6	3	9	6	3	5	3	6	3	9	1	3	2	–	–	–
Drafters II	86	39.0	279.50	273.50	259.00– 280.00	1	6	2	32	15	19	–	–	2	–	2	4	3	–	–	–	–	–	–	–	–
Manufacturing	75	38.5	265.50	273.50	259.00– 280.00	–	4	–	28	13	19	–	–	2	–	2	4	3	–	–	–	–	–	–	–	–
Drafters III	237	40.0	325.00	325.00	292.50– 352.50	–	3	40	–	14	31	21	24	58	8	2	12	4	3	12	4	1	–	–	–	–
Manufacturing	216	40.0	330.00	325.00	293.50– 353.00	–	–	34	–	14	30	18	18	56	8	2	12	4	3	12	4	1	–	–	–	–
Drafters IV	329	39.0	379.50	344.00	297.50– 463.00	–	–	2	18	22	47	32	35	12	18	10	–	12	23	48	3	35	7	4	1	–
Manufacturing	289	39.0	387.00	367.50	311.00– 463.00	–	–	–	8	14	44	32	34	10	15	8	–	11	20	43	3	35	7	4	1	–
Drafters V	184	39.5	454.00	427.50	390.00– 529.00	–	–	–	–	2	2	–	8	12	12	23	29	13	2	4	1	38	30	2	6	–
Manufacturing	155	39.5	461.50	428.50	390.00– 532.50	–	–	–	–	–	–	–	6	10	12	20	26	8	2	–	–	35	28	2	6	–
Registered industrial nurses	104	39.5	411.00	385.50	351.50– 445.50	–	–	–	–	–	1	–	18	12	15	7	11	7	9	2	5	9	7	1	–	–
Manufacturing	99	40.0	413.00	385.50	355.00– 445.50	–	–	–	–	–	–	–	17	11	15	7	10	6	9	2	5	9	7	1	–	–

See footnotes at end of tables.

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Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Buffalo, N.Y., October 1982

Sex,[2] occupation, and industry division	Number of workers	Average (mean[3])	
		Weekly hours[1] (standard)	Weekly earnings (in dollars)[1]
Office occupations – women			
Secretaries	1,498	39.0	298.00
Manufacturing	927	39.5	323.00
Nonmanufacturing	571	37.5	256.50
Secretaries I	235	38.5	251.50
Nonmanufacturing	127	37.5	211.50
Secretaries II	359	38.5	267.00
Manufacturing	181	39.5	287.50
Nonmanufacturing	178	37.5	246.00
Secretaries III	486	39.0	311.50
Manufacturing	360	39.5	325.00
Nonmanufacturing	126	37.5	273.50
Secretaries IV	328	39.0	333.50
Manufacturing	223	39.5	349.50
Nonmanufacturing	105	37.5	299.00
Secretaries V	90	38.5	338.00
Manufacturing	55	39.5	368.00
Stenographers	296	38.5	271.50
Manufacturing	104	40.0	300.00
Stenographers I	174	38.5	243.00
Manufacturing	72	40.0	269.00
Stenographers II	122	38.5	312.50
Transcribing-machine typists	88	39.5	261.00
Typists	491	38.5	204.50
Manufacturing	201	39.0	207.00
Nonmanufacturing	290	38.0	203.00
Typists I	394	38.5	199.50
Manufacturing	187	39.0	200.00
Nonmanufacturing	207	38.0	199.00
Typists II	97	38.0	225.00
Nonmanufacturing	83	38.0	212.00
File clerks	136	38.0	190.00
Nonmanufacturing	134	38.0	188.00
File clerks I	67	38.0	164.00
Nonmanufacturing	67	38.0	164.00
Messengers	93	38.0	182.00
Nonmanufacturing	54	37.5	174.00
Switchboard operators	92	37.5	208.00
Nonmanufacturing	76	37.0	186.00
Switchboard operator-receptionists	295	38.5	222.00
Manufacturing	159	38.5	243.50
Nonmanufacturing	136	39.0	196.50
Order clerks	185	39.0	234.50
Manufacturing	147	39.5	244.00
Order clerks I	175	39.0	232.50
Manufacturing	147	39.5	244.00
Accounting clerks	1,367	39.0	224.00
Manufacturing	598	39.5	256.50
Nonmanufacturing	769	38.5	198.50
Accounting clerks I	102	38.5	184.00
Accounting clerks II	561	39.0	204.50
Manufacturing	195	39.5	242.00
Nonmanufacturing	366	38.5	184.50
Accounting clerks III	587	38.5	229.50
Manufacturing	271	39.0	250.50
Nonmanufacturing	316	38.0	211.50
Accounting clerks IV	117	39.5	323.50
Manufacturing	81	39.5	345.00
Payroll clerks	194	39.0	264.00
Manufacturing	147	39.0	268.50
Key entry operators	630	39.0	238.50
Manufacturing	343	39.5	277.00
Nonmanufacturing	287	38.5	193.00
Key entry operators I	379	39.5	217.00
Manufacturing	173	39.5	254.50
Nonmanufacturing	206	39.0	185.50
Key entry operators II	251	39.0	271.50
Manufacturing	170	40.0	299.50
Nonmanufacturing	81	37.5	212.00
Professional and technical occupations – men			
Computer systems analysts (business)	198	39.5	502.00
Manufacturing	149	40.0	520.00
Computer systems analysts (business) II	85	39.5	480.50
Manufacturing	65	40.0	498.00
Computer systems analysts (business) III	90	39.5	547.00
Manufacturing	70	40.0	559.00
Computer programmers (business): Manufacturing	139	39.5	408.50
Computer programmers (business) II: Manufacturing	54	40.0	385.00
Computer programmers (business) III: Manufacturing	55	39.5	478.00
Computer operators	133	39.5	389.00
Manufacturing	111	40.0	406.00
Computer operators II	65	39.5	354.00
Manufacturing	52	40.0	365.00
Computer operators III	54	39.5	459.00
Drafters	752	39.5	377.00
Manufacturing	658	39.5	382.50
Nonmanufacturing	94	40.0	336.00
Drafters II	70	39.0	282.00
Manufacturing	60	39.0	289.00
Drafters III	215	40.0	326.50
Manufacturing	195	40.0	332.00
Drafters IV	299	39.0	389.00
Manufacturing	264	39.0	396.50
Drafters V	166	39.5	460.00
Manufacturing	137	39.5	469.50
Professional and technical occupations – women			
Computer systems analysts (business)	82	39.0	429.00
Manufacturing	61	39.0	433.00
Computer systems analysts (business) II	51	38.5	402.50
Computer programmers (business): Manufacturing	71	40.0	351.50
Computer operators	154	39.0	327.00
Manufacturing	101	39.5	365.00
Nonmanufacturing	53	38.5	255.00
Computer operators II	87	39.0	315.50
Manufacturing	69	39.5	324.50
Drafters	87	39.5	311.50
Manufacturing	80	39.5	315.50
Registered industrial nurses	104	39.5	411.00
Manufacturing	99	40.0	413.00

See footnotes at end of tables.

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Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Buffalo, N.Y., October 1982

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[1]			Number of workers receiving straight-time hourly earnings (in dollars) of —																						
		Mean[2]	Median[3]	Middle range[4]	Under 7.40	7.40 and under 7.60	7.60 – 7.80	7.80 – 8.00	8.00 – 8.40	8.40 – 8.80	8.80 – 9.20	9.20 – 9.60	9.60 – 10.00	10.00 – 10.40	10.40 – 10.80	10.80 – 11.20	11.20 – 11.60	11.60 – 12.00	12.00 – 12.60	12.60 – 13.20	13.20 – 13.80	13.80 – 14.40	14.40 – 15.00	15.00 – 15.60	15.60 – 16.20	16.20 – 16.80	16.80 and over
Maintenance carpenters:																											
Manufacturing	97	11.68	11.51	10.12–12.66	–	–	–	–	–	–	–	–	12	23	4	2	22	7	2	1	10	3	10	–	–	1	–
Maintenance electricians	1,274	12.75	13.03	11.18–13.86	–	–	–	4	–	10	4	2	–	103	85	133	123	126	29	45	3	428	40	53	16	22	48
Manufacturing	1,216	12.81	13.53	11.18–13.86	–	–	–	–	–	6	–	–	–	99	85	132	114	123	29	18	3	428	40	53	16	22	48
Maintenance painters	155	11.28	11.51	10.06–12.14	6	4	–	–	–	1	–	–	14	15	22	3	22	28	5	2	33	–	–	–	–	–	–
Manufacturing	144	11.63	11.51	10.72–12.18	–	–	–	–	–	–	–	–	14	15	22	3	22	28	5	2	33	–	–	–	–	–	–
Maintenance machinists	444	11.49	11.63	10.41–11.66	–	–	–	–	15	6	–	–	10	46	56	74	12	175	–	1	1	8	2	28	2	–	8
Manufacturing	433	11.52	11.63	10.41–11.66	–	–	–	–	15	6	–	–	10	37	56	74	12	174	–	–	1	8	2	28	2	–	8
Maintenance mechanics (machinery)	1,767	12.76	13.84	11.63–13.86	–	–	–	–	3	25	13	20	30	281	34	24	–	280	56	28	26	729	48	108	8	9	45
Manufacturing	1,673	12.81	13.84	11.18–13.86	–	–	–	–	3	25	13	20	30	281	33	24	–	235	8	28	26	729	48	108	8	9	45
Maintenance mechanics (motor vehicles)	613	11.49	11.70	8.70–13.64	23	20	11	20	19	94	–	4	1	54	27	9	24	36	5	40	156	19	20	8	2	–	21
Manufacturing	243	12.83	13.64	10.18–13.66	14	–	–	–	–	6	–	–	1	54	–	3	6	14	2	5	81	6	20	8	2	–	21
Nonmanufacturing	370	10.61	10.75	8.70–13.03	9	20	11	20	19	88	–	4	–	–	27	6	18	22	3	35	75	13	–	–	–	–	–
Transportation and utilities	234	11.64	12.95	10.75–13.40	–	20	–	20	8	–	–	4	–	–	27	6	3	22	1	35	75	13	–	–	–	–	–
Maintenance pipefitters	687	12.13	11.82	11.63–13.64	–	–	–	–	–	–	3	–	–	77	40	11	10	304	10	–	220	12	–	–	–	–	–
Manufacturing	684	12.15	11.82	11.63–13.64	–	–	–	–	–	–	–	–	–	77	40	11	10	304	10	–	220	12	–	–	–	–	–
Maintenance sheet-metal workers	214	12.65	13.64	11.82–13.64	–	–	–	–	–	6	–	–	19	–	–	3	4	50	–	–	132	–	–	–	–	–	–
Manufacturing	194	12.94	13.64	11.82–13.64	–	–	–	–	–	6	–	–	–	–	–	3	4	49	–	–	132	–	–	–	–	–	–
Millwrights	620	12.70	13.64	11.19–13.64	–	–	–	–	–	–	–	–	–	–	132	61	4	12	8	–	375	10	–	13	5	–	–
Manufacturing	620	12.70	13.64	11.19–13.64	–	–	–	–	–	–	–	–	–	–	132	61	4	12	8	–	375	10	–	13	5	–	–
Maintenance trades helpers	139	7.68	6.50	6.10– 8.76	* 84	–	–	–	8	21	4	–	–	8	–	–	–	–	1	3	8	–	–	2	–	–	–
Manufacturing	114	7.64	6.50	6.10– 8.76	74	–	–	–	8	18	–	–	–	–	–	–	–	–	1	3	8	–	–	2	–	–	–
Machine-tool operators (toolroom)	489	12.85	13.74	11.00–13.74	–	–	–	–	–	–	–	–	26	17	3	86	11	–	–	–	262	84	–	–	–	–	–
Manufacturing	489	12.85	13.74	11.00–13.74	–	–	–	–	–	–	–	–	26	17	3	86	11	–	–	–	262	84	–	–	–	–	–
Tool and die makers	1,120	12.38	11.50	11.19–13.88	–	–	–	–	–	–	–	26	–	13	78	330	140	6	14	4	–	509	–	–	–	–	–
Manufacturing	1,120	12.38	11.50	11.19–13.88	–	–	–	–	–	–	–	26	–	13	78	330	140	6	14	4	–	509	–	–	–	–	–
Stationary engineers	234	11.72	11.89	10.68–13.55	2	6	–	–	1	4	1	–	8	6	56	3	–	34	52	–	49	12	–	–	–	–	–
Manufacturing	221	11.82	11.92	10.68–13.60	–	6	–	–	1	2	1	–	3	6	56	3	–	34	48	–	49	12	–	–	–	–	–

* All workers were under $6.80.

Also see footnotes at end of tables.

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Table A-5. Hourly earnings of material movement and custodial workers in Buffalo, N.Y., October 1982

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[1]			Number of workers receiving straight-time hourly earnings (in dollars) of —																						
		Mean[2]	Median[2]	Middle range[3]	3.20 and under 3.40	3.40 – 3.60	3.60 – 4.00	4.00 – 4.40	4.40 – 4.80	4.80 – 5.20	5.20 – 5.60	5.60 – 6.00	6.00 – 6.40	6.40 – 7.00	7.00 – 7.60	7.60 – 8.20	8.20 – 8.80	8.80 – 9.40	9.40 – 10.00	10.00 – 10.60	10.60 – 11.20	11.20 – 11.80	11.80 – 12.40	12.40 – 13.00	13.00 – 13.60	13.60 – 14.20	14.20 and over
Truckdrivers	2,229	11.03	11.19	9.58–13.29	–	5	–	31	31	20	2	32	6	6	6	106	154	129	181	291	131	110	157	66	572	189	4
Manufacturing	619	11.33	11.63	9.58–13.47	–	–	–	22	–	–	–	4	6	–	6	14	14	59	65	32	80	23	25	66	71	128	4
Nonmanufacturing	1,610	10.92	10.61	9.08–13.29	–	5	–	9	31	20	2	28	–	6	–	92	140	70	116	259	51	87	132	–	501	61	–
Transportation and utilities	828	12.46	13.29	12.07–13.29	–	–	–	–	–	–	–	1	–	–	–	1	62	2	1	50	51	6	132	–	461	61	–
																					9	15	–	3	–	–	–
Truckdrivers, light truck	141	6.55	5.85	4.60– 6.95	–	–	–	31	9	20	2	32	6	6	4	–	4	–	–	–	9	–	–	–	–	–	–
Nonmanufacturing	83	5.96	5.85	4.95– 5.85	–	–	–	9	9	20	2	28	–	6	–	–	–	–	–	–	–	–	–	–	–	–	–
Truckdrivers, medium truck	262	11.62	13.49	10.61–13.49	–	5	–	–	20	–	–	–	–	–	–	1	2	16	5	6	44	4	–	–	159	–	–
Truckdrivers, heavy truck	514	10.90	10.00	9.60–13.29	–	–	–	–	–	–	–	–	–	–	–	105	4	5	136	21	72	2	–	38	5	126	–
Manufacturing	296	12.18	12.40	11.19–14.09	–	–	–	–	–	–	–	–	–	–	–	14	4	5	21	16	72	–	–	38	–	126	–
Nonmanufacturing	218	9.17	9.60	7.90– 9.98	–	–	–	–	–	–	–	–	–	–	–	91	–	–	115	5	–	2	–	–	5	–	–
Truckdrivers, tractor-trailer	1,242	11.54	12.07	10.43–13.29	–	–	–	–	–	–	–	–	–	–	2	–	120	86	40	264	6	81	148	24	407	61	3
Manufacturing	177	11.50	11.92	9.58–13.47	–	–	–	–	–	–	–	–	–	–	2	–	6	18	40	12	–	–	16	24	56	–	3
Nonmanufacturing	1,065	11.55	12.07	10.43–13.29	–	–	–	–	–	–	–	–	–	–	–	–	114	68	–	252	6	81	132	–	351	61	–
Transportation and utilities	594	12.56	13.29	12.07–13.29	–	–	–	–	–	–	–	–	–	–	–	–	36	–	–	48	6	–	132	–	311	61	–
														–	1	–	–	12	6	14	2	2	–	–	–	–	* 13
Shippers	50	11.36	10.30	9.19–14.29	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Receivers	185	7.59	7.70	6.60– 8.94	10	10	10	–	4	–	–	2	2	14	15	53	14	18	–	6	15	12	–	–	–	–	–
Manufacturing	129	8.29	7.70	7.70– 8.94	–	–	–	–	–	–	–	–	–	14	14	51	14	18	–	6	–	12	–	–	–	–	–
Nonmanufacturing	56	5.98	3.75	3.50–10.91	10	10	10	–	4	–	–	2	2	–	1	2	–	–	–	–	15	–	–	–	–	–	–
														–	1	–	–	–	–	–	–	15	–	–	–	–	–
Shippers and receivers	299	8.63	9.03	8.85– 9.61	–	–	–	–	4	13	16	–	23	2	9	1	–	105	111	–	–	15	–	–	–	–	–
Manufacturing	278	8.70	9.03	8.85– 9.61	–	–	–	–	4	8	16	–	22	1	3	–	–	105	105	–	–	14	–	–	–	–	–
Warehousemen	1,361	9.84	10.00	9.80–10.91	–	–	3	–	9	–	–	1	–	37	44	105	24	78	591	26	385	58	–	–	–	–	–
Manufacturing	624	9.51	9.94	7.77–11.15	–	–	–	–	–	–	–	–	–	36	44	103	18	58	139	24	144	58	–	–	–	–	–
Nonmanufacturing	737	10.11	10.00	9.80–10.91	–	–	3	–	9	–	–	1	–	1	–	2	6	20	452	2	241	–	–	–	–	–	–
														90	–	17	57	1	1	1	1	–	–	–	–	–	–
Order fillers	190	7.35	6.95	6.95– 8.64	–	5	–	–	–	5	12	–	–	–	–	73	30	6	7	–	–	205	–	–	–	–	–
Shipping packers	417	9.13	9.40	7.94–11.68	–	–	5	27	22	13	22	–	–	7	–	68	12	6	7	–	–	205	–	–	–	–	–
Manufacturing	384	9.32	11.68	7.94–11.68	–	–	–	22	22	13	22	–	–	7	–	68	12	6	7	–	–	205	–	–	–	–	–
Material handling laborers	1,102	9.18	8.90	7.17–11.42	–	6	8	20	–	26	26	–	–	85	152	13	205	29	112	128	2	194	–	5	91	–	–
Manufacturing	951	9.08	8.58	7.20–10.27	–	–	–	–	–	26	–	–	–	85	152	13	205	29	112	128	2	194	–	5	–	–	–
Nonmanufacturing	151	9.77	13.19	5.40–13.19	–	6	8	20	–	–	26	–	–	–	–	–	–	–	–	–	–	–	–	–	91	–	–
Transportation and utilities	91	13.21	13.19	13.19–13.23	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	91	–	–
										–	12	–	93	112	56	57	4	178	122	40	50	512	–	–	182	–	–
Forklift operators	1,418	10.20	11.13	8.85–11.76	–	–	–	–	–	–	12	–	–	112	56	57	4	178	122	40	6	512	–	–	7	–	–
Manufacturing	1,106	10.01	10.39	8.88–11.76	–	–	–	–	–	–	–	–	93	–	–	–	–	–	–	–	44	–	–	–	175	–	–
Nonmanufacturing	312	10.88	13.24	6.37–13.24	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Guards	1,694	5.24	3.55	3.35– 6.35	456	441	216	43	14	8	32	12	53	32	–	6	152	14	18	6	78	9	104	–	–	–	–
Manufacturing	415	9.71	9.80	6.66–11.70	–	–	–	–	8	–	16	4	–	14	–	6	152	2	18	4	78	9	104	–	–	–	–
Nonmanufacturing	1,279	3.78	3.45	3.35– 3.65	456	441	216	43	6	8	16	8	53	18	–	–	–	12	–	2	–	–	–	–	–	–	–
Guards I	1,528	5.00	3.55	3.35– 4.43	456	441	204	43	14	8	18	12	11	20	–	6	78	12	8	6	78	9	104	–	–	–	–
Manufacturing	329	9.93	10.88	8.66–11.87	–	–	–	–	8	–	16	4	–	14	–	6	78	–	8	4	78	9	104	–	–	–	–
Nonmanufacturing	1,199	3.65	3.45	3.35– 3.60	456	441	204	43	6	8	2	8	11	6	–	–	–	12	–	2	–	–	–	–	–	–	–
Janitors, porters, and cleaners	3,033	4.93	3.60	3.35– 6.55	1326	185	246	261	56	31	63	27	43	249	42	70	148	58	101	3	4	120	–	–	–	–	–
Manufacturing	801	8.10	7.76	6.55– 9.54	–	–	–	16	–	–	36	10	32	239	31	46	129	45	91	2	4	120	–	–	–	–	–
Nonmanufacturing	2,232	3.79	3.35	3.35– 3.80	1326	185	246	245	56	31	27	17	11	10	11	24	19	13	10	1	–	–	–	–	–	–	–
Transportation and utilities	77	8.04	7.89	7.55– 8.51	–	–	–	1	–	–	–	–	1	8	10	24	19	13	–	1	–	–	–	–	–	–	–

* Workers were distributed as follows: 6 at $14.80 to $15.40; and 7 at $16.00 to $16.60.

Also see footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Buffalo, N.Y., October 1982

Sex,[1] occupation, and industry division	Number of workers	Average (mean[2]) hourly earnings (in dollars)[3]
Maintenance, toolroom, and powerplant occupations – men		
Maintenance carpenters:		
Manufacturing	97	11.68
Maintenance electricians	1,274	12.75
Manufacturing	1,216	12.81
Maintenance painters	155	11.28
Manufacturing	144	11.63
Maintenance machinists	444	11.49
Manufacturing	433	11.52
Maintenance mechanics (machinery)	1,765	12.76
Manufacturing	1,671	12.81
Maintenance mechanics (motor vehicles)	609	11.48
Manufacturing	243	12.83
Nonmanufacturing	366	10.58
Transportation and utilities	230	11.62
Maintenance pipefitters	687	12.13
Manufacturing	684	12.15
Maintenance sheet-metal workers	213	12.65
Manufacturing	193	12.93
Millwrights	620	12.70
Manufacturing	620	12.70
Maintenance trades helpers	139	7.68
Manufacturing	114	7.64
Machine-tool operators (toolroom)	489	12.85
Manufacturing	489	12.85
Tool and die makers	1,120	12.38
Manufacturing	1,120	12.38
Stationary engineers	234	11.72
Manufacturing	221	11.82
Material movement and custodial occupations – men		
Truckdrivers	2,199	11.10
Manufacturing	613	11.36
Nonmanufacturing	1,586	11.00
Transportation and utilities	828	12.46
Truckdrivers, light truck	113	6.86
Truckdrivers, medium truck	262	11.62
Truckdrivers, heavy truck	512	10.90
Manufacturing	294	12.18
Nonmanufacturing	218	9.17
Truckdrivers, tractor-trailer	1,242	11.54
Manufacturing	177	11.50
Nonmanufacturing	1,065	11.55
Transportation and utilities	594	12.56
Receivers	184	7.59
Manufacturing	129	8.29
Nonmanufacturing	55	5.96
Shippers and receivers	296	8.65
Manufacturing	278	8.70
Warehousemen	1,325	9.85
Manufacturing	608	9.51
Nonmanufacturing	717	10.14
Order fillers	80	7.58
Shipping packers	365	9.13
Manufacturing	355	9.23
Material handling laborers	1,033	9.35
Manufacturing	895	9.22
Nonmanufacturing	138	10.18
Transportation and utilities	91	13.21
Forklift operators	1,404	10.21
Manufacturing	1,092	10.02
Nonmanufacturing	312	10.88
Guards	1,548	5.28
Manufacturing	384	9.75
Nonmanufacturing	1,164	3.80
Guards I	1,391	5.04
Manufacturing	305	9.97
Nonmanufacturing	1,086	3.66
Janitors, porters, and cleaners	1,785	5.44
Manufacturing	639	8.24
Nonmanufacturing	1,146	3.88
Transportation and utilities	50	8.24
Material movement and custodial occupations – women		
Shipping packers	52	9.14
Guards	146	4.82
Nonmanufacturing	115	3.60
Guards I	137	4.60
Nonmanufacturing	113	3.57
Janitors, porters, and cleaners	1,243	4.18
Manufacturing	162	7.52
Nonmanufacturing	1,081	3.68
Transportation and utilities	27	7.67

See footnotes at end of tables.

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Table A-7. Indexes of earnings and percent increases for selected occupational groups, Buffalo, N.Y., selected periods

Period*	All industries					Manufacturing					Nonmanufacturing			
	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Unskilled plant
Indexes (October 1977 = 100):														
October 1981	138.7	136.5	144.3	144.2	144.1	142.0	136.9	144.7	144.5	144.5	134.3	(*)	(*)	143.4
October 1982	149.2	147.7	152.8	151.8	150.9	152.8	*48.0	153.4	151.9	153.0	144.5	(*)	(*)	147.6
Percent increases:														
October 1972 to October 1973	6.4	(*)	6.7	8.1	7.4	6.6	(*)	6.5	8.1	7.7	6.2	(*)	(*)	6.4
October 1973 to October 1974	8.2	8.8	10.0	9.5	9.1	9.0	9.5	10.0	9.8	9.6	7.2	(*)	(*)	7.7
October 1974 to October 1975	8.1	7.7	10.6	9.9	8.9	9.2	9.0	12.0	10.1	9.9	6.5	(*)	(*)	6.4
October 1975 to October 1976	7.0	5.9	8.2	10.0	8.9	7.2	8.5	7.8	10.1	9.9	6.7	(*)	(*)	7.6
October 1976 to October 1977	7.6	5.9	8.3	8.3	7.4	8.0	7.3	8.4	8.3	8.1	7.1	(*)	(*)	6.5
October 1977 to October 1978	8.5	6.3	7.8	8.1	9.1	9.9	7.4	7.8	8.1	8.1	6.5	(*)	(*)	10.2
October 1978 to October 1979	8.5	8.5	8.3	9.3	10.9	9.4	9.0	8.5	9.3	10.3	7.3	(*)	(*)	11.4
October 1979 to October 1980	9.4	10.4	12.9	11.1	10.1	10.2	9.7	13.3	11.4	10.8	8.5	(*)	(*)	9.2
October 1980 to October 1981	7.7	7.2	9.5	9.8	8.2	7.2	6.5	9.1	9.7	9.4	8.3	(*)	(*)	6.9
October 1981 to October 1982	7.6	6.2	5.9	5.3	4.7	7.6	8.1	6.0	5.1	5.9	7.6	(*)	(*)	2.9

See footnotes at end of tables.

Table A-8. Pay relationships in establishments with paired office clerical occupations, Buffalo, N.Y., October 1982

Occupation for which earnings are compared	Occupation for which average earnings equal 100																						
	Secretaries					Stenographers		Transcribing machine typists	Typists		File clerks	Messengers	Switchboard operators	Switchboard operator-receptionists	Order clerks	Accounting clerks				Payroll clerks	Key entry operators	
	I	II	III	IV	V	I	II		I	II	I				I	I	II	III	IV		I	II
Secretaries I	**100**	86	83	71	64	109	(*)	(*)	123	(*)	(*)	134	108	(*)	(*)	(*)	107	95	(*)	(*)	128	104
Secretaries II	116	**100**	88	78	73	116	(*)	(*)	126	(*)	(*)	140	115	120	(*)	(*)	116	106	(*)	85	120	107
Secretaries III	120	113	**100**	89	73	120	107	124	139	127	(*)	151	115	119	102	151	125	112	106	95	128	110
Secretaries IV	141	128	113	**100**	86	131	(*)	(*)	138	(*)	(*)	156	131	123	126	138	142	127	113	110	146	124
Secretaries V	156	137	137	116	**100**	174	(*)	(*)	155	(*)	(*)	202	151	132	(*)	159	164	135	127	122	164	141
Stenographers I	91	86	83	76	57	**100**	(*)	(*)	108	(*)	(*)	107	(*)	(*)	(*)	(*)	94	80	(*)	(*)	91	87
Stenographers II	(*)	(*)	94	(*)	(*)	(*)	**100**	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	108	87	(*)	91	(*)	97
Transcribing-machine typists	(*)	(*)	80	(*)	(*)	(*)	(*)	**100**	113	(*)	(*)	(*)	(*)	123	(*)	(*)	95	105	(*)	86	(*)	113
Typists I	81	79	72	72	65	93	(*)	88	**100**	(*)	(*)	(*)	(*)	96	86	92	86	82	76	80	94	86
Typists II	(*)	(*)	79	(*)	(*)	(*)	(*)	(*)	(*)	**100**	(*)	(*)	(*)	97	(*)	(*)	97	86	(*)	88	(*)	89
File clerks I	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	**100**	(*)	(*)	94	(*)	(*)	83	74	(*)	(*)	(*)	(*)
Messengers	75	71	66	64	49	93	(*)	(*)	(*)	(*)	(*)	**100**	78	81	(*)	(*)	89	70	72	67	86	86
Switchboard operators	93	87	87	76	66	(*)	(*)	(*)	(*)	(*)	(*)	128	**100**	(*)	(*)	(*)	104	95	(*)	(*)	106	96
Switchboard operator-receptionists	(*)	83	84	81	76	(*)	(*)	81	104	104	107	124	(*)	**100**	100	109	103	91	82	89	109	104
Order clerks I	(*)	(*)	98	79	(*)	(*)	(*)	(*)	116	(*)	(*)	(*)	(*)	100	**100**	(*)	(*)	103	(*)	77	88	101
Accounting clerks I	(*)	(*)	66	72	63	(*)	(*)	(*)	108	(*)	(*)	(*)	(*)	92	(*)	**100**	(*)	76	(*)	81	90	87
Accounting clerks II	93	86	80	71	61	106	92	106	116	103	121	112	96	97	(*)	(*)	**100**	83	76	81	101	93
Accounting clerks III	105	94	89	79	74	125	114	95	122	116	136	143	105	110	97	131	120	**100**	83	94	118	105
Accounting clerks IV	(*)	(*)	94	88	79	(*)	(*)	(*)	131	(*)	(*)	138	(*)	121	(*)	(*)	131	121	**100**	100	127	112
Payroll clerks	(*)	117	105	91	82	(*)	110	116	125	114	(*)	149	(*)	112	131	123	124	106	100	**100**	130	112
Key entry operators I	78	84	78	69	61	110	(*)	(*)	107	(*)	(*)	116	94	92	113	111	99	85	78	77	**100**	86
Key entry operators II	96	93	91	81	71	114	103	89	116	113	(*)	116	105	96	99	115	107	95	89	89	117	**100**

NOTE: This matrix table shows the average (mean) relationship of earnings in establishments between any two occupations compared. Earnings for an occupation in the table stub are expressed as a percent of the earnings for an occupation in the column heading at the point where the data lines for the two intersect. For example, reading across the Secretaries II row, the 116 in the Secretaries I column indicates that Secretaries II average 116 percent of (or 16 percent more than) the earnings of Secretaries I.

See appendix A for method of computation.

Also see footnotes at end of tables.

Table A-9. Pay relationships in establishments with paired professional and technical occupations, Buffalo, N.Y., October 1982

Occupation for which earnings are compared	Occupation for which average earnings equal 100												
	Computer systems analysts (business)		Computer programmers (business)			Computer operators			Drafters				Registered industrial nurses
	II	III	I	II	III	I	II	III	II	III	IV	V	
Computer systems analysts (business) II	**100**	83	149	129	112	(*)	144	111	(*)	143	119	116	118
Computer systems analysts (business) III	121	**100**	184	150	(*)	197	168	140	(*)	(*)	123	(*)	136
Computer programmers (business) I	67	54	**100**	83	70	116	93	73	(*)	93	61	66	85
Computer programmers (business) II	78	67	121	**100**	78	143	112	88	(*)	114	82	(*)	103
Computer programmers (business) III	89	(*)	142	128	**100**	178	139	104	(*)	151	115	110	121
Computer operators I	(*)	51	86	70	56	**100**	78	(*)	(*)	91	(*)	(*)	85
Computer operators II	69	59	108	89	72	129	**100**	87	110	98	86	72	91
Computer operators III	90	71	137	114	96	(*)	115	**100**	(*)	120	97	101	109
Drafters II	(*)	(*)	(*)	(*)	(*)	(*)	91	(*)	**100**	86	73	60	(*)
Drafters III	70	(*)	108	88	66	110	102	83	117	**100**	85	76	96
Drafters IV	84	81	163	122	87	(*)	117	103	137	117	**100**	84	114
Drafters V	98	(*)	152	(*)	91	(*)	140	99	165	132	120	**100**	116
Registered industrial nurses	85	74	117	97	83	118	110	92	(*)	104	88	87	**100**

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

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Table A-10. Pay relationships in establishments with paired maintenance, toolroom, and powerplant occupations, Buffalo, N.Y., October 1982

Occupation for which earnings are compared	Occupation for which average earnings equal 100											
	Electricians	Painters	Machinists	Mechanics		Pipefitters	Sheet-metal workers	Millwrights	Trades helpers	Machine-tool operators (toolroom)	Tool and die makers	Stationary engineers
				Machinery	Motor vehicles							
Maintenance electricians	100	109	99	101	100	102	101	102	121	100	99	104
Maintenance painters	92	100	92	93	93	98	99	97	102	97	94	96
Maintenance machinists	101	109	100	102	99	101	101	102	123	(*)	(*)	103
Maintenance mechanics (machinery)	99	107	98	100	99	101	101	101	118	101	99	103
Maintenance mechanics (motor vehicles)	100	107	101	101	100	101	100	101	121	98	96	103
Maintenance pipefitters	98	102	99	99	99	100	100	100	(*)	99	98	100
Maintenance sheet-metal workers	99	101	99	99	100	100	100	(*)	121	99	98	99
Millwrights	98	103	98	99	99	100	(*)	100	(*)	99	97	100
Maintenance trades helpers	83	98	81	85	82	(*)	83	(*)	100	(*)	(*)	90
Machine-tool operators (toolroom)	100	103	(*)	99	102	101	101	101	(*)	100	99	101
Tool and die makers	101	107	(*)	101	104	102	102	103	(*)	101	100	102
Stationary engineers	96	105	98	97	97	100	101	100	11[illegible]	99	98	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-11. Pay relationships in establishments with paired material movement and custodial occupations, Buffalo, N.Y., October 1982

Occupation for which earnings are compared	Occupation for which average earnings equal 100													
	Truckdrivers				Shippers	Receivers	Shippers and receivers	Warehouse-men	Order fillers	Shipping packers	Material handling laborers	Forklift operators	Guards	Janitors, porters, and cleaners
	Light truck	Medium truck	Heavy truck	Tractor-trailer									I	
Truckdrivers, light truck	100	(*)	(*)	(*)	(*)	(*)	97	(*)	(*)	(*)	(*)	(*)	(*)	126
Truckdrivers, medium truck	(*)	100	(*)	(*)	97	110	(*)	101	(*)	(*)	103	122	(*)	110
Truckdrivers, heavy truck	(*)	(*)	100	95	(*)	(*)	(*)	(*)	(*)	(*)	(*)	108	(*)	133
Truckdrivers, tractor-trailer	(*)	(*)	105	100	(*)	107	(*)	(*)	(*)	(*)	106	110	108	143
Shippers	(*)	103	(*)	(*)	100	116	(*)	109	(*)	(*)	(*)	112	(*)	120
Receivers	(*)	91	(*)	93	86	100	(*)	100	(*)	(*)	105	102	101	112
Shippers and receivers	103	(*)	(*)	(*)	(*)	(*)	100	100	(*)	(*)	(*)	101	(*)	147
Warehousemen	(*)	99	(*)	(*)	92	100	100	100	(*)	(*)	109	(*)	(*)	131
Order fillers	(*)	(*)	(*)	95	(*)	(*)	(*)	(*)	100	104	(*)	101	102	125
Shipping packers	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	97	100	101	97	(*)	104
Material handling laborers	(*)	(*)	(*)	94	(*)	95	91	(*)	(*)	99	100	96	97	104
Forklift operators	(*)	97	(*)	(*)	89	99	(*)	99	(*)	104	104	100	100	112
Guards I	(*)	82	93	91	(*)	99	(*)	98	(*)	(*)	103	100	100	106
Janitors, porters, and cleaners	79	91	75	70	83	89	68	76	80	96	96	89	94	100

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

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Table A-12. Weekly earnings of office workers in establishments employing 500 workers or more in Buffalo, N.Y., October 1982

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[1]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[2]	Median[2]	Middle range[2]	120 and under 130	130 – 140	140 – 150	150 – 160	160 – 170	170 – 180	180 – 190	190 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 340	340 – 380	380 – 420	420 – 460	460 – 500	500 – 540	540 – 580	580 – 620
Secretaries	976	39.0	311.50	297.50	243.00– 366.00	–	–	4	2	4	13	8	53	77	67	79	83	109	156	113	77	75	21	21	8	6
Manufacturing	588	40.0	349.00	337.00	291.00– 396.00	–	–	–	–	–	–	–	–	3	27	44	39	64	127	105	70	61	13	21	8	6
Nonmanufacturing	388	37.5	254.00	233.00	203.00– 285.00	–	–	4	2	4	13	8	53	74	40	35	44	45	29	8	7	14	8	–	–	–
Transportation and utilities	34	39.0	409.50	423.50	403.00– 456.00	–	–	–	–	–	–	–	–	–	1	1	1	2	–	2	6	13	8	–	–	–
Secretaries I	216	38.5	251.50	232.00	199.50– 308.50	–	–	–	–	–	11	4	50	21	31	13	10	12	46	18	–	–	–	–	–	–
Secretaries II	161	38.0	276.00	274.00	211.00– 353.00	–	–	4	2	4	–	2	–	35	5	14	34	17	2	26	16	–	–	–	–	–
Secretaries III	330	39.0	317.00	293.00	254.50– 375.00	–	–	–	–	–	–	2	3	20	30	48	33	40	39	34	36	24	10	11	–	–
Manufacturing	254	40.0	338.50	325.00	272.00– 402.00	–	–	–	–	–	–	–	–	3	13	30	27	34	35	33	34	24	10	11	–	–
Nonmanufacturing	76	37.0	246.00	232.50	218.50– 259.50	–	–	–	–	–	–	2	3	17	17	18	6	6	4	1	2	–	–	–	–	–
Secretaries IV	202	39.0	365.00	343.50	311.00– 423.50	–	–	–	–	–	–	–	–	1	–	1	3	30	66	25	21	42	3	3	7	–
Manufacturing	140	40.0	385.50	370.00	324.00– 435.00	–	–	–	–	–	–	–	–	–	–	–	–	6	44	25	20	32	3	3	7	–
Nonmanufacturing	62	37.0	318.50	300.00	285.00– 325.50	–	–	–	–	–	–	–	–	1	–	1	3	24	22	–	1	10	–	–	–	–
Stenographers	283	38.5	275.00	257.00	214.00– 356.50	–	–	–	2	–	1	5	21	72	17	42	21	14	8	68	1	4	5	2	–	–
Manufacturing	93	40.0	311.00	356.50	214.50– 372.50	–	–	–	–	–	–	–	6	25	4	4	5	–	–	37	1	4	5	2	–	–
Stenographers I	164	38.5	245.00	216.50	202.00– 257.00	–	–	–	2	–	1	5	21	72	17	6	13	–	8	8	1	3	5	2	–	–
Manufacturing	61	40.0	260.00	216.50	213.50– 362.00	–	–	–	–	–	–	–	6	25	4	4	5	–	–	6	1	3	5	2	–	–
Stenographers II	119	39.0	316.00	341.00	257.50– 367.50	–	–	–	–	–	–	–	–	–	–	36	8	14	–	60	–	1	–	–	–	–
Typists	187	38.0	212.50	194.50	172.00– 247.50	–	–	–	11	33	18	5	33	14	19	33	6	4	4	5	–	1	1	–	–	–
Nonmanufacturing	148	37.5	204.00	192.50	166.50– 247.50	–	–	–	11	33	18	1	25	4	13	33	2	–	3	3	–	–	–	–	–	–
Typists I	100	38.0	207.00	194.50	190.50– 247.50	–	–	–	11	3	7	4	30	10	6	28	–	–	1	–	–	–	–	–	–	–
Typists II	87	38.0	218.50	192.00	166.50– 255.50	–	–	–	–	30	11	1	3	4	13	5	6	4	3	5	–	1	1	–	–	–
Messengers	51	38.0	197.50	185.00	157.50– 226.50	2	2	6	4	–	10	2	2	10	4	3	3	1	2	–	–	–	–	–	–	–
Switchboard operators	52	38.0	240.00	230.00	200.00– 271.00	6	–	–	–	–	1	5	–	11	8	5	6	–	4	2	4	–	–	–	–	–
Accounting clerks	582	39.0	260.00	233.00	188.00– 288.00	–	–	3	21	19	32	76	34	53	71	72	48	24	35	27	6	25	11	25	–	–
Manufacturing	254	40.0	314.50	278.00	242.00– 352.00	–	–	–	–	–	–	1	4	25	32	43	26	23	24	23	5	12	11	25	–	–
Nonmanufacturing	328	38.0	218.00	199.50	183.50– 235.00	–	–	3	21	19	32	75	30	28	39	29	22	1	11	4	1	13	–	–	–	–
Accounting clerks II	278	39.0	230.00	226.00	183.50– 254.50	–	–	–	2	10	20	59	9	34	43	38	19	13	15	15	–	–	1	–	–	–
Manufacturing	119	40.0	262.00	246.00	226.00– 294.00	–	–	–	–	–	–	–	–	24	28	18	14	12	10	12	–	–	1	–	–	–
Nonmanufacturing	159	38.0	206.50	184.00	183.50– 235.00	–	–	–	2	10	20	59	9	10	15	20	5	1	5	3	–	–	–	–	–	–
Accounting clerks III	204	38.5	288.00	249.00	202.00– 310.50	–	–	–	–	–	6	16	24	16	27	29	25	7	11	4	1	13	–	25	–	–
Manufacturing	84	40.0	343.00	279.50	249.00– 529.50	–	–	–	–	–	–	1	4	1	4	25	8	7	6	3	–	–	–	25	–	–
Nonmanufacturing	120	37.5	249.50	225.00	199.50– 271.00	–	–	–	–	–	6	15	20	15	23	4	17	–	5	1	1	13	–	–	–	–
Accounting clerks IV	55	40.0	378.50	352.00	319.00– 455.50	–	–	–	–	–	–	–	–	2	–	2	4	4	8	8	5	12	10	–	–	–
Manufacturing	51	40.0	390.50	388.00	327.50– 457.00	–	–	–	–	–	–	–	–	–	–	–	4	4	8	8	5	12	10	–	–	–
Payroll clerks	79	39.5	393.50	367.00	295.00– 552.00	–	–	–	–	–	–	–	–	6	2	–	7	9	13	9	–	3	8	–	22	–
Manufacturing	63	40.0	421.00	434.00	324.00– 552.00	–	–	–	–	–	–	–	–	4	–	–	4	4	10	9	–	2	8	–	22	–
Key entry operators	374	39.0	267.50	257.50	189.50– 309.00	–	–	6	12	29	20	28	16	20	25	45	37	34	27	37	3	15	14	1	5	–
Manufacturing	226	40.0	303.50	267.50	251.50– 352.00	–	–	–	–	–	–	11	6	8	21	43	34	18	17	32	3	13	14	1	5	–
Nonmanufacturing	148	38.0	211.50	183.50	166.50– 245.50	–	–	6	12	29	20	17	10	12	4	2	3	16	10	5	–	2	–	–	–	–

See footnotes at end of tables.

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Table A-12. Weekly earnings of office workers in establishments employing 500 workers or more in Buffalo, N.Y., October 1982 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[1]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[2]	Median[3]	Middle range[4]	120 and under 130	130 – 140	140 – 150	150 – 160	160 – 170	170 – 180	180 – 190	190 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 340	340 – 380	380 – 420	420 – 460	460 – 500	500 – 540	540 – 580	580 – 620
Key entry operators I	188	39.0	226.50	222.50	172.50– 261.00	–	–	6	10	25	15	13	10	11	18	27	25	8	8	10	2	–	–	–	–	–
Manufacturing	107	39.5	254.50	259.00	224.00– 270.00	–	–	–	–	–	–	11	6	5	15	26	22	7	8	5	2	–	–	–	–	–
Nonmanufacturing	81	38.5	189.50	170.00	166.50– 192.50	–	–	6	10	25	15	2	4	6	3	1	3	1	–	5	–	–	–	–	–	–
Key entry operators II	186	39.0	308.50	283.00	232.00– 356.50	–	–	–	2	4	5	15	6	9	7	18	12	26	19	27	1	15	14	1	5	–
Manufacturing	119	40.0	347.50	352.00	266.00– 445.00	–	–	–	–	–	–	–	–	3	6	17	12	11	9	27	1	13	14	1	5	–
Nonmanufacturing	67	37.5	238.50	201.50	183.50– 283.00	–	–	–	2	4	5	15	6	6	1	1	–	15	10	–	–	2	–	–	–	–

See footnotes at end of tables.

BEST DOCUMENT AVAILABLE

Table A-13. Weekly earnings of professional and technical workers in establishments employing 500 workers or more in Buffalo, N.Y., October 1982

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[1]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[2]	Median[2]	Middle range[2]	180 and under 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 460	460 – 480	480 – 500	500 – 540	540 – 580	580 – 620	620 – 660	660 and over
Computer systems analysts (business)	225	39.5	496.50	490.50	417.00– 557.00	-	-	-	-	-	-	1	6	4	9	14	23	20	9	17	12	31	35	19	19	6
Manufacturing	162	40.0	521.00	527.50	446.00– 577.50	-	-	-	-	-	-	-	3	-	-	4	14	17	8	12	8	26	29	16	19	6
Computer systems analysts (business) II	102	39.5	480.50	462.00	418.00– 547.00	-	-	-	-	-	-	-	3	2	4	7	10	17	5	12	4	4	22	5	6	1
Manufacturing	80	40.0	503.00	490.50	435.50– 550.00	-	-	-	-	-	-	-	3	-	-	-	6	14	4	12	3	4	22	5	6	1
Computer systems analysts (business) III	88	39.0	553.50	540.50	509.50– 598.50	-	-	-	-	-	-	-	-	-	-	1	4	-	-	5	7	27	13	14	12	5
Manufacturing	61	39.5	575.50	567.50	513.00– 623.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	22	7	11	12	5
Computer programmers (business)	312	38.5	371.00	354.00	307.00– 417.50	-	-	4	3	16	42	28	36	32	27	26	23	25	15	11	7	5	2	2	8	-
Manufacturing	148	40.0	393.00	378.00	318.00– 429.00	-	-	-	-	6	18	16	10	14	10	12	15	13	10	8	1	3	2	2	8	-
Computer programmers (business) I	79	38.5	294.50	295.00	276.00– 307.00	-	-	4	3	14	28	22	6	1	1	-	-	-	-	-	-	-	-	-	-	-
Computer programmers (business) II	148	38.5	364.00	352.50	330.00– 386.50	-	-	-	-	2	14	6	30	28	20	14	13	5	10	3	1	1	1	-	-	-
Manufacturing	74	40.0	383.50	378.00	342.00– 417.50	-	-	-	-	-	6	6	4	11	10	10	10	2	10	2	1	1	1	-	-	-
Computer programmers (business) III	82	38.5	452.50	429.00	400.00– 474.00	-	-	-	-	-	-	-	-	3	6	12	10	19	5	8	6	3	1	1	8	-
Computer operators	202	39.5	395.00	377.00	307.00– 493.00	2	6	8	11	5	5	27	9	11	20	23	5	5	-	4	14	7	29	10	1	-
Manufacturing	147	40.0	425.50	385.00	339.00– 552.00	-	-	2	4	4	1	18	8	8	18	18	3	5	-	-	14	4	29	10	1	-
Nonmanufacturing	55	38.0	314.50	302.50	240.00– 379.00	2	6	6	7	1	4	9	1	3	2	5	2	-	-	4	-	3	-	-	-	-
Computer operators II	85	39.5	361.50	336.00	307.00– 394.00	-	-	3	9	1	3	23	5	5	8	12	2	1	-	-	2	2	3	6	-	-
Manufacturing	64	40.0	380.00	359.50	307.50– 394.00	-	-	2	4	-	1	16	4	5	6	12	-	1	-	-	2	2	3	6	-	-
Computer operators III	86	39.5	468.50	493.00	371.50– 552.00	-	-	-	-	-	2	2	4	6	10	3	3	4	-	4	12	5	26	4	1	-
Manufacturing	72	40.0	480.50	493.00	385.00– 552.00	-	-	-	-	-	-	-	4	3	10	3	3	4	-	-	12	2	26	4	1	-
Drafters	310	40.0	409.00	408.50	333.00– 504.00	-	4	12	8	22	24	4	9	27	14	26	11	20	8	34	7	45	22	6	7	-
Manufacturing	304	40.0	408.00	403.00	331.00– 504.00	-	4	12	8	22	24	4	8	27	14	26	11	20	8	29	7	45	22	6	7	-
Drafters III	65	40.0	358.50	367.00	279.50– 462.00	-	-	12	-	8	8	-	-	4	2	2	5	4	3	12	4	1	-	-	-	-
Manufacturing	65	40.0	358.50	367.00	279.50– 462.00	-	-	12	-	8	8	-	-	4	2	2	5	4	3	12	4	1	-	-	-	-
Drafters IV *	153	40.0	414.00	439.00	311.50– 504.00	-	-	-	8	14	16	4	7	10	-	8	-	11	3	22	3	35	7	4	1	-
Manufacturing	147	40.0	412.50	434.50	293.00– 504.00	-	-	-	8	14	16	4	6	10	-	8	-	11	3	17	3	35	7	4	1	-
Drafters V	74	40.0	458.50	417.50	371.50– 549.50	-	-	-	-	-	-	-	-	10	12	14	2	2	2	-	-	9	15	2	6	-
Manufacturing	74	40.0	458.50	417.50	371.50– 549.50	-	-	-	-	-	-	-	-	10	12	14	2	2	2	-	-	9	15	2	6	-
Registered industrial nurses	88	40.0	419.50	415.00	359.00– 466.00	-	-	-	-	-	1	-	16	5	15	-	11	7	9	2	5	9	7	1	-	-
Manufacturing	83	40.0	423.00	415.00	360.50– 482.50	-	-	-	-	-	-	-	15	4	15	-	10	6	9	2	5	9	7	1	-	-

See footnotes at end of tables.

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Table A-14. Average weekly earnings of office, professional, and technical workers, by sex in establishments employing 500 workers or more in Buffalo, N.Y., October 1982

Sex,[3] occupation, and industry division	Number of workers	Average (mean[2])	
		Weekly hours[1] (standard)	Weekly earnings (in dollars)[1]
Office occupations – women			
Secretaries	950	39.0	309.50
Manufacturing	588	40.0	349.00
Nonmanufacturing	362	37.0	245.50
Secretaries I	216	38.5	251.50
Secretaries II	161	38.0	276.00
Secretaries III	330	39.0	317.00
Manufacturing	254	40.0	338.50
Nonmanufacturing	76	37.0	246.00
Secretaries IV	202	39.0	365.00
Manufacturing	140	40.0	385.50
Nonmanufacturing	62	37.0	318.50
Stenographers	277	38.5	273.50
Manufacturing	93	40.0	311.00
Stenographers I	163	38.5	245.00
Manufacturing	61	40.0	280.00
Stenographers II	114	38.5	314.50
Typists	184	38.0	210.00
Nonmanufacturing	143	37.5	201.00
Typists I	100	38.0	207.00
Typists II	84	38.0	214.00
Switchboard operators	50	37.5	239.50
Accounting clerks	502	38.5	241.00
Manufacturing	218	40.0	294.00
Nonmanufacturing	284	37.5	200.00
Accounting clerks II	252	38.5	223.50
Manufacturing	111	40.0	259.50
Nonmanufacturing	141	37.5	195.00
Accounting clerks III	166	38.5	251.50
Manufacturing	65	40.0	299.50
Nonmanufacturing	101	37.5	220.50
Payroll clerks	54	39.5	337.50
Key entry operators	358	39.0	262.50
Manufacturing	222	40.0	301.00
Nonmanufacturing	136	37.5	199.50
Key entry operators I	188	39.0	226.50
Manufacturing	107	39.5	254.50
Nonmanufacturing	81	38.5	189.50
Key entry operators II	170	39.0	302.00
Manufacturing	115	40.0	344.50
Nonmanufacturing	55	36.5	213.50
Professional and technical occupations – men			
Computer systems analysts (business)	171	39.5	504.00
Manufacturing	129	40.0	523.50
Computer systems analysts (business) II	79	39.5	482.00
Manufacturing	65	40.0	498.00
Computer systems analysts (business) III	70	39.0	561.50
Manufacturing	50	39.5	584.50
Computer programmers (business):			
Manufacturing	100	40.0	405.50
Computer operators	109	39.5	410.00
Manufacturing	90	40.0	431.50
Computer operators II	50	39.0	373.00
Computer operators III	51	39.5	464.00
Drafters	262	40.0	426.00
Manufacturing	256	40.0	425.50
Drafters III	56	40.0	372.00
Manufacturing	56	40.0	372.00
Drafters IV	128	40.0	439.00
Manufacturing	122	40.0	438.50
Drafters V	62	40.0	471.50
Manufacturing	62	40.0	471.50
Professional and technical occupations – women			
Computer systems analysts (business)	54	39.5	473.50
Computer operators	84	39.0	367.50
Manufacturing	57	40.0	415.50
Registered industrial nurses	88	40.0	419.50
Manufacturing	83	40.0	423.00

See footnotes at end of tables.

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Table A-15. Hourly earnings of maintenance, toolroom, and powerplant workers in establishments employing 500 workers or more in Buffalo, N.Y., October 1982

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[1]			Number of workers receiving straight-time hourly earnings (in dollars) of —																					
		Mean[2]	Median[2]	Middle range[3]	Under 7.40	7.40 and under 7.60	7.60 – 7.80	7.80 – 8.00	8.00 – 8.40	8.40 – 8.80	8.80 – 9.20	9.20 – 9.60	9.60 – 10.00	10.00 – 10.40	10.40 – 10.80	10.80 – 11.20	11.20 – 11.60	11.60 – 12.00	12.00 – 12.60	12.60 – 13.20	13.20 – 13.80	13.80 – 14.40	14.40 – 15.00	15.00 – 15.60	15.60 – 16.20	16.20 – 16.80	16.80 and over
Maintenance carpenters:																										
Manufacturing	67	12.08	11.51	10.10–13.64	–	–	–	–	–	–	–	–	12	8	–	2	18	–	2	1	10	3	10	–	–	1	–
Maintenance electricians	1,048	13.10	13.86	11.40–13.86	–	–	–	4	–	4	4	2	–	35	71	125	86	49	17	41	3	428	40	53	16	22	48
Manufacturing	995	13.20	13.86	11.50–13.86	–	–	–	–	–	–	–	–	–	32	71	124	77	48	17	18	3	428	40	53	16	22	48
Maintenance painters	108	11.53	11.51	10.69–13.60	2	4	–	–	–	1	–	–	14	–	22	3	22	–	5	2	33	–	–	–	–	–	–
Manufacturing	101	11.81	11.51	10.72–13.60	–	–	–	–	–	–	–	–	14	–	22	3	22	–	5	2	33	–	–	–	–	–	–
Maintenance machinists	352	11.73	11.63	10.41–11.66	–	–	–	–	–	–	–	–	10	31	56	58	–	147	–	1	1	8	2	28	2	–	8
Manufacturing	341	11.77	11.63	10.41–11.66	–	–	–	–	–	–	–	–	10	22	56	58	–	146	–	–	1	8	2	28	2	–	8
Maintenance mechanics (machinery)	1,335	13.35	13.86	12.51–13.86	–	–	–	–	3	–	–	–	30	148	34	24	–	87	8	28	26	729	48	108	8	9	45
Manufacturing	1,321	13.37	13.86	12.98–13.86	–	–	–	–	3	–	–	–	30	148	33	24	–	74	8	28	26	729	48	108	8	9	45
Maintenance mechanics (motor vehicles)	272	12.69	12.95	11.37–13.64	–	–	–	20	–	–	–	2	–	39	3	3	22	22	3	37	81	19	–	–	–	–	21
Manufacturing	161	13.45	13.64	11.00–13.64	–	–	–	–	–	–	–	–	–	39	–	3	4	–	2	5	81	6	–	–	–	–	* 21
Nonmanufacturing	111	11.60	11.90	11.47–12.95	–	–	–	20	–	–	–	2	–	–	3	–	18	22	1	32	–	13	–	–	–	–	–
Transportation and utilities	96	11.60	11.90	10.61–12.95	–	–	–	20	–	–	–	2	–	–	3	–	3	22	1	32	–	13	–	–	–	–	–
Maintenance pipefitters	421	12.55	13.64	11.63–13.64	–	–	–	–	–	–	3	–	–	32	32	4	–	108	10	–	220	12	–	–	–	–	–
Manufacturing	418	12.58	13.64	11.63–13.64	–	–	–	–	–	–	–	–	–	32	32	4	–	108	10	–	220	12	–	–	–	–	–
Maintenance sheet-metal workers	155	13.10	13.64	13.64–13.64	–	–	–	–	–	–	–	–	19	–	–	3	–	1	–	–	132	–	–	–	–	–	–
Millwrights	555	12.89	13.64	11.66–13.64	–	–	–	–	–	–	–	–	–	–	132	–	–	12	8	–	375	10	–	13	5	–	–
Manufacturing	555	12.89	13.64	11.66–13.64	–	–	–	–	–	–	–	–	–	–	132	–	–	12	8	–	375	10	–	13	5	–	–
Maintenance trades helpers	63	9.47	8.76	8.46–10.28	• • 8	–	–	–	8	21	4	–	–	8	–	–	–	–	1	3	8	–	–	2	–	–	–
Machine-tool operators (toolroom)	450	13.10	13.74	13.56–13.74	–	–	–	–	–	–	–	–	–	4	3	86	11	–	–	–	262	84	–	–	–	–	–
Manufacturing	450	13.10	13.74	13.56–13.74	–	–	–	–	–	–	–	–	–	4	3	86	11	–	–	–	262	84	–	–	–	–	–
Tool and die makers	1,063	12.48	11.50	11.19–13.88	–	–	–	–	–	–	–	–	–	–	78	330	140	–	2	4	–	509	–	–	–	–	–
Manufacturing	1,063	12.48	11.50	11.19–13.88	–	–	–	–	–	–	–	–	–	–	78	330	140	–	2	4	–	509	–	–	–	–	–
Stationary engineers	186	11.76	11.66	10.68–13.64	2	–	–	–	1	4	1	–	8	6	56	3	–	34	10	–	49	12	–	–	–	–	–
Manufacturing	173	11.89	11.66	10.68–13.64	–	–	–	–	1	2	1	–	3	6	56	3	–	34	6	–	49	12	–	–	–	–	–

* All workers were at $19.20 to $19.80.
• • All workers were under $6.80.
Also see footnotes at end of tables.

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Table A-16. Hourly earnings of material movement and custodial workers in establishments employing 500 workers or more in Buffalo, N.Y., October 1982

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[1]			Number of workers receiving straight-time hourly earnings (in dollars) of —																							
		Mean[2]	Median[2]	Middle range[3]	3.20 and under 3.40	3.40 – 3.60	3.60 – 4.00	4.00 – 4.40	4.40 – 4.80	4.80 – 5.20	5.20 – 5.60	5.60 – 6.00	6.00 – 6.40	6.40 – 7.00	7.00 – 7.60	7.60 – 8.20	8.20 – 8.80	8.80 – 9.40	9.40 – 10.00	10.00 – 10.60	10.60 – 11.20	11.20 – 11.80	11.80 – 12.40	12.40 – 13.00	13.00 – 13.60	13.60 – 14.20	14.20 and over
Truckdrivers	594	11.52	11.36	9.74–13.49	–	–	–	–	–	2	2	5	–	–	6	15	40	34	45	18	51	110	25	28	146	63	4
Manufacturing	213	10.30	9.58	8.88–11.86	–	–	–	–	–	–	–	4	–	–	6	14	14	32	44	16	–	23	25	28	1	2	4
Nonmanufacturing	381	12.21	13.49	11.36–13.49	–	–	–	–	–	2	2	1	–	–	–	1	26	2	1	2	51	87	–	–	145	61	–
Truckdrivers, tractor-trailer	269	11.59	11.36	10.52–12.80	–	–	–	–	–	–	–	–	–	–	2	–	6	18	40	12	6	81	16	24	–	61	3
Manufacturing	121	10.59	9.58	9.58–11.92	–	–	–	–	–	–	–	–	–	–	2	–	6	18	40	12	–	–	16	24	–	–	3
Receivers	79	9.42	8.94	8.26–10.91	–	–	–	–	2	–	–	–	–	–	1	14	14	17	–	4	15	12	–	–	–	–	–
Manufacturing	59	9.29	8.94	8.26–10.19	–	–	–	–	–	–	–	–	–	–	–	12	14	17	–	4	–	12	–	–	–	–	–
Warehousemen	581	10.09	10.02	9.94–10.91	–	–	3	–	–	–	–	–	–	7	18	15	24	42	167	26	270	9	–	–	–	–	–
Manufacturing	287	9.60	9.94	9.36– 9.94	–	–	–	–	–	–	–	–	–	6	18	15	18	28	139	24	30	9	–	–	–	–	–
Material handling laborers	680	9.13	8.58	8.58–10.09	–	6	8	20	–	–	–	–	–	85	24	5	201	15	70	80	2	159	–	5	–	–	–
Manufacturing	646	9.40	8.90	8.58–11.58	–	–	–	–	–	–	–	–	–	85	24	5	201	15	70	80	2	159	–	5	–	–	–
Forklift operators	838	10.66	11.76	9.24–11.76	–	–	–	–	–	–	–	–	–	–	56	43	–	136	44	6	48	498	–	–	7	–	–
Manufacturing	794	10.63	11.76	9.19–11.76	–	–	–	–	–	–	–	–	–	–	56	43	–	136	44	6	4	498	–	–	7	–	–
Guards	369	9.82	10.88	8.73–11.87	–	–	4	6	8	–	6	1	11	6	–	6	92	14	18	6	78	9	104	–	–	–	–	–
Manufacturing	325	10.26	10.88	8.73–11.87	–	–	–	–	8	–	4	–	–	–	–	6	92	2	18	4	78	9	104	–	–	–	–	–
Guards I	283	10.11	11.01	8.87–11.87	–	–	4	6	8	–	6	1	11	6	–	6	18	12	8	6	78	9	104	–	–	–	–	–
Manufacturing	239	10.75	11.01	10.88–11.87	–	–	–	–	8	–	4	–	–	–	–	6	18	–	8	4	78	9	104	–	–	–	–	–
Janitors, porters, and cleaners	1,156	6.00	4.67	3.35– 8.36	298	87	157	21	26	7	30	27	17	59	42	66	87	37	70	1	4	120	–	–	–	–	–
Manufacturing	429	8.93	8.36	7.46–11.38	–	–	–	–	–	–	12	10	6	51	31	42	69	24	60	–	4	120	–	–	–	–	–
Nonmanufacturing:																												
Transportation and utilities	74	8.07	7.89	7.89– 8.51	–	–	–	1	–	–	–	–	1	6	10	24	18	13	–	1	–	–	–	–	–	–	–

See footnotes at end of tables.

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Table A-17. Average hourly earnings of maintenance, toolroom, powerplant, material movement and custodial workers by sex in establishments employing 500 workers or more in Buffalo, N.Y., October 1982

Sex,[1] occupation, and industry division	Number of workers	Average (mean[2]) hourly earnings (in dollars)[3]
Maintenance, toolroom, and powerplant occupations - men		
Maintenance carpenters:		
Manufacturing	67	12.08
Maintenance electricians	1,048	13.10
Manufacturing	995	13.20
Maintenance painters	108	11.53
Manufacturing	101	11.81
Maintenance machinists	352	11.73
Manufacturing	341	11.77
Maintenance mechanics (machinery)	1,333	13.35
Manufacturing	1,319	13.37
Maintenance mechanics (motor vehicles)	268	12.69
Manufacturing	161	13.45
Nonmanufacturing	107	11.55
Transportation and utilities	92	11.54
Maintenance pipefitters	421	12.55
Manufacturing	418	12.58
Maintenance sheet-metal workers	154	13.10
Millwrights	555	12.89
Manufacturing	555	12.89
Maintenance trades helpers	63	9.47
Machine-tool operators (toolroom)	450	13.10
Manufacturing	450	13.10
Tool and die makers	1,063	12.48
Manufacturing	1,063	12.48
Stationary engineers	186	11.76
Manufacturing	173	11.89
Material movement and custodial occupations - men		
Truckdrivers	590	11.56
Manufacturing	209	10.38
Nonmanufacturing	381	12.21
Truckdrivers, tractor-trailer	269	11.59
Manufacturing	121	10.59
Receivers	78	9.44
Manufacturing	59	9.29
Warehousemen	551	10.15
Manufacturing	277	9.63
Material handling laborers	639	9.28
Manufacturing	605	9.58
Forklift operators	824	10.69
Manufacturing	780	10.66
Guards	334	9.92
Manufacturing	294	10.36
Guards I	255	10.24
Manufacturing	215	10.90
Janitors, porters, and cleaners	766	6.29
Manufacturing	310	9.20
Nonmanufacturing:		
Transportation and utilities	50	8.24
Material movement and custodial occupations - women		
Janitors, porters, and cleaners	385	5.43
Manufacturing	119	8.25

See footnotes at end of tables.

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Footnotes

[1] Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

[2] The mean is computed for each job by totaling the earnings of all workers and dividing by the number of workers. The median designates position—half of the workers receive the same or more and half receive the same or less than the rate shown. The middle range is defined by two rates of pay; one-fourth of the workers earn the same or less than the lower of these rates and one-fourth earn the same or more than the higher rate.

[3] Earnings data relate only to workers whose sex identification was provided by the establishment.

[4] Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

[5] Estimates for periods ending prior to 1976 relate to men only for skilled maintenance and unskilled plant workers. All other estimates relate to men and women.

• Data do not meet publication criteria or data not available.

Appendix A. Scope and Method of Survey

In each of the 72 areas[1] currently surveyed, the Bureau obtains wages and related benefits data from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Government operations and the construction and extractive industries are excluded. Small establishments—generally those with fewer than 50 employees—are excluded because they have few incumbents in the occupations studied. Appendix table 1 shows the number of establishments and workers estimated to be within the scope of this survey, as well as the number actually studied.

Bureau field representatives obtain data by personal visits at 3-year intervals. In each of the two intervening years, information on employment and occupational earnings only is collected by a combination of personal visit, mail questionnaire, and telephone interview from establishments participating in the previous survey.

A sample of the establishments in the scope of the survey is selected for study prior to each personal visit survey. This sample, minus establishments which go out of business or are no longer within the industrial scope of the survey, is retained for the following two annual surveys. In most cases, establishments new to the area are not considered in the scope of the survey until the selection of a sample for a personal visit survey.

The sampling procedures involve detailed stratification of all establishments within the scope of an individual area survey by industry and number of employees. From this stratified universe a probability sample is selected, with each establishment having a predetermined chance of selection. To obtain optimum accuracy at minimum cost, a greater proportion of large than small establishments is selected. When data are combined, each establishment is weighted according to its probability of selection so that unbiased estimates are generated. For example, if one out of four establishments is selected, it is given a weight of 4 to represent itself plus three others. An alternate of the same original probability is chosen in the same industry-size classification if data are not available from the original sample member. If no suitable substitute is available, additional weight is assigned to a sample member that is similar to the missing unit.

Occupations and earnings

Occupations selected for study are common to a variety of manufacturing and nonmanufacturing industries, and are of the following types: (1) Office clerical; (2) professional and technical; (3) maintenance, toolroom, and powerplant; and (4) material movement and custodial. Occupational classification is based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B. Occupational codes and titles from the 1980 edition of the *Standard Occupational Classification Manual* are also presented in appendix B.

Unless otherwise indicated, the earnings data following the job titles are for all industries combined. Earnings data for some of the occupations listed and described, or for some industry divisions within the scope of the survey, are not presented in the A-series tables because either (1) data were insufficient to provide meaningful statistical results, or (2) there is possibility of disclosure of individual establishment data. Separate men's and women's earnings data are not presented when the number of workers not identified by sex is 20 percent or more of the men or women identified in an occupation. Earnings data not shown separately for industry divisions are included in data for all industries combined. Likewise, for occupations with more than one level, data are included in the overall classification when a subclassification is not shown or information to subclassify is not available.

Occupational employment and earnings data are shown for full-time workers, i.e., those hired to work a regular weekly schedule. Earnings data exclude premium pay for overtime and for work on weekends, holidays, and late shifts. Nonproduction bonuses are excluded, but cost-of-living allowances and incentive bonuses are included. Weekly hours for office clerical and professional and technical occupations refer to the standard workweek (rounded to the nearest half hour) for which employees receive regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates). Average weekly earnings for these occupations are rounded to the nearest half dollar. Most A-series tables provide distributions of workers by earnings; changes in the size of earnings intervals are indicated by heavy vertical lines.

These surveys measure the level of occupational earnings in an area at a particular time. Changes in an occupational average over time reflect, in addition to earnings changes, factors such as changes in proportions of workers employed by high- or low-wage firms, or high-wage workers advancing to better jobs and being replaced by new workers at lower rates. Such shifts in employment could decrease an occupational average even though most establishments in an area increase wages during the year. Changes in earnings of occupational groups, shown in table A-7, are better indicators of wage trends than are earnings changes for individual jobs within the groups.

Average earnings reflect composite, areawide estimates. Industries and establishments differ in pay level and job staffing, and thus contribute differently to the estimates for each job. Pay averages may fail to reflect accurately the wage differential among jobs in individual establishments.

Average pay levels for men and women in selected occupations should not be assumed to reflect differences in pay of the sexes within individual establishments. Factors which may contribute to differences include progression within established rate ranges (only the rates paid incumbents are collected) and performance of specific duties within the general survey job descriptions. Job descriptions used to classify employees in these surveys usually are more generalized than those used in individual establishments and allow for minor differences among establishments in specific duties performed.

Occupational employment estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of occupational employment obtained from the sample of establishments studied serve only to indicate the relative importance of the jobs studied. These differences in occupational structure do not affect materially the accuracy of the earnings data.

Wage trends for selected occupational groups

Indexes in table A-7 measure wages at a given time, expressed as a percent of wages during the base period. Subtracting 100 from the index yields the percent change in wages from the base period to the date of the index. The percent increases in table A-7 relate to wage changes between the indicated dates. Annual rates of increase, where shown, reflect the amount of increase for 12 months when the time span between surveys was other than 12 months. These computations are based on the assumption that wages increased at a constant rate between surveys.

The indexes and percent increases are based on changes in average hourly earnings of men and women in establishments reporting the trend jobs in both the current and previous year (matched establishments). The data are adjusted to remove the effect on average earnings of employment shifts among establishments and turnover of establishments included in survey samples. The percent increases, however, are still affected by factors other than wage increases. Turnover may affect an establishment average for an occupation when workers are paid under plans providing a range of wage rates for individual jobs. In periods of increased hiring, for example, new employees may enter at the bottom of the range, depressing the average without a change in wage rates.

Occupations used to compute wage trends are:

Office clerical

Secretaries
Stenographers, I and II
Typists, I and II
File clerks, I, II, and III
Messengers
Switchboard operators
Order clerks, I and II
Accounting clerks, I, II, III, and IV
Payroll clerks
Key entry operators, I and II

Electronic data processing

Computer systems analysts, I, II, and III
Computer programmers, I, II, and III
Computer operators, I, II, and III

Industrial nurses

Registered industrial nurses

Skilled maintenance

Carpenters
Electricians
Painters
Machinists
Mechanics (machinery)
Mechanics (motor vehicle)
Pipefitters
Tool and die makers

Unskilled plant

Janitors, porters, and cleaners
Material handling laborers

Percent changes for individual areas in the program are computed as follows:

1. Average earnings are computed for each occupation for the 2 years being compared. The averages are derived from earnings in those establishments which are in the survey both years; it is assumed that employment remains unchanged.

2. Each occupation is assigned a weight based on its proportionate employment in the occupational group.

3. These weights are used to compute group averages. Each occupation's average earnings (computed in step 1) are multiplied by its weight. The products are totaled to obtain a group average.

4. The ratio of group averages for 2 consecutive years is computed by dividing the average for the current year by the average for the earlier year. The result—expressed as a percent—less 100 is the percent change.

The index is computed by adding 100 to the most recent percent increase, multiplying the total by the previous year's index number, and dividing the product by 100 to obtain the current index value.

For a more detailed description of the method used to compute these wage trends, see "Improving Area Wage Survey Indexes," *Monthly Labor Review*, January 1973, pp. 52-57.

Pay relationships in establishments

Tables A-8 through A-11 compare average pay of occupations in individual establishments. These comparisons, expressed as pay relatives (pay for one of the occupations equals 100), yield different results than comparisons of overall survey averages, such as those shown in tables A-1 through A-6. The latter reflect differences in contributions to the survey averages by establishments with disparate pay levels; the pay relative comparisons are not affected by such differences. The following procedures are used to compute relatives in tables A-8 through A-11:

1. Establishments employing workers in both of the paired occupations were identified.

2. Pay levels (averages) for the two occupations were weighted by the combined employment of both jobs to reflect each establishment's contribution to the totals used in this comparison.

3. The weighted pay levels of the two jobs were summed separately; each total was divided by the other and the quotients multiplied by 100 to produce the two pay relatives shown for each job pairing.

Establishment practices and supplementary wage provisions

Tabulations on selected establishment practices and supplementary wage provisions (B-series tables) are not presented in this bulletin. Information for these tabulations is collected at 3-year intervals. These tabulations on minimum entrance salaries for inexperienced office workers; shift diferentials; scheduled weekly hours and days; paid holidays; paid vacations; and health, insurance, and pension plans are presented (in the B-series tables) in previous bulletins for this area.

[1] Includes 70 areas surveyed under the Bureau's regular program plus Norfolk-Virginia Beach-Portsmouth and Newport News-Hampton, Va.-N.C., and Poughkeepsie-Kingston-Newburgh, N.Y., which are surveyed under contract. In addition, the Bureau conducts more limited area studies in approximately 85 areas at the request of the Employment Standards Administration of the U.S. Department of Labor.

Appendix table 1. Establishments and workers within scope of survey and number studied in Buffalo, N.Y.,[1] October 1982

Industry division[2]	Minimum employment in establishments in scope of survey	Number of establishments		Workers in establishments		
		Within scope of survey[3]	Studied	Within scope of survey[4]		Studied
				Number	Percent	
All establishments						
All divisions	-	820	135	205,833	100	90,672
Manufacturing	50	316	40	109,371	53	47,573
Nonmanufacturing	-	504	95	96,462	47	43,099
Transportation, communication, and other public utilities[5]	50	64	22	17,404	8	13,216
Wholesale trade[6]	50	66	10	6,759	3	2,124
Retail trade[6]	50	203	20	35,635	17	12,211
Finance, insurance, and real estate[6]	50	39	11	14,885	7	8,924
Services[6] [7]	50	132	32	21,779	11	6,624
Large establishments						
All divisions	-	76	40	113,905	100	75,914
Manufacturing	500	38	17	67,620	59	42,990
Nonmanufacturing	-	38	23	46,285	41	32,924
Transportation, communication, and other public utilities[5]	500	5	5	11,437	10	11,437
Wholesale trade[6]	500	1	1	1,209	1	1,209
Retail trade[6]	500	15	8	17,472	15	9,725
Finance, insurance, and real estate[6]	500	9	5	11,352	10	8,152
Services[6] [7]	500	8	4	4,815	4	2,401

[1] The Buffalo, N.Y. Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Erie and Niagara Counties. The "workers within scope of survey" estimates provide a reasonably accurate description of the size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison with other statistical series to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) small establishments are excluded from the scope of the survey.

[2] The 1972 edition of the *Standard Industrial Classification Manual* was used to classify establishments by industry division. All government operations are excluded from the scope of the survey.

[3] Includes all establishments with total employment at or above the minimum limitation. All outlets (within the area) of nonmanufacturing companies are considered as one establishment when located within the same industry division.

[4] Includes all workers in all establishments with total employment (within the area) at or above the minimum limitation.

[5] Abbreviated to "transportation and utilities" in the A-series tables. Taxicabs and services incidental to water transportation are excluded. The municipally operated portion of Buffalo's transit system is excluded by definition from the scope of the survey.

[6] Separate data for this division are not presented in the A-series tables, but the division is represented in the "all industries" and "nonmanufacturing" estimates.

[7] Hotels and motels; laundries and other personal services; business services; automobile repair, rental, and parking; motion pictures; nonprofit membership organizations (excluding religious and charitable organizations); and engineering and architectural services.

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Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits grouping of occupational wage rates representing comparable job content. Because of this emphasis on comparability of occupational content, the Bureau's job descriptions may differ significantly from those in use in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field representatives are instructed to exclude working supervisors; apprentices; and part-time, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Learners, beginners, and trainees, unless specifically included in the job description, are excluded.

The titles and 2, 3, or 4-digit codes below the job titles in this appendix are taken from the 1980 edition of the *Standard Occupational Classification Manual (SOC)*, issued by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards.

In general, the Bureau of Labor Statistics' occupational descriptions are much more specific than those found in the SOC manual. The BLS occupation, "Registered Industrial Nurse," for example, is limited to workers providing medical assistance and other related services (e.g., health education) to persons who are ill or become ill or suffer an injury in a factory or other establishment. The SOC occupation (code 29) includes a variety of registered nurses (e.g., school nurse, head nurse, general duty nurse, private nurse) that are excluded from the BLS description.

Thus, in comparing the results of this survey with other sources, factors such as differences in occupational definitions and survey scope should be taken into consideration.

Office

SECRETARY

(4622: Secretary)

Assigned as a personal secretary, normally to one individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor. Works fairly independently receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring a knowledge of office routine and understanding of the organization, programs, and procedures related to the work of the supervisor.

Exclusions. Not all positions that are titled "secretary" possess the above characteristics. Examples of positions which are excluded from the definition are as follows:

a. Positions which do not meet the "personal" secretary concept described above;

b. Stenographers not fully trained in secretarial-type duties;

c. Stenographers serving as office assistants to a group of professional, technical, or managerial persons;

d. Assistant-type positions which entail more difficult or more responsible technical, administrative, or supervisory duties which are not typical of secretarial work, e.g., Administrative Assistant, or Executive Assistant;

e. Positions which do not fit any of the situations listed in the sections below titled "Level of Supervisor," e.g., secretary to the president of a company that employs, in all, over 5,000 persons;

f. Trainees.

Classification by level. Secretary jobs which meet the required characteristics are matched at one of five levels according to (a) the level of the secretary's supervisor within the company's organizational structure and, (b) the level of the secretary's responsibility. The tabulation following the explanations of these two factors indicates the level of the secretary for each combination of the factors.

Level of Secretary's Supervisor (LS)

LS-1

a. Secretary to the supervisor or head of a small organizational unit (e.g., fewer than about 25 or 30 persons); or
b. Secretary to a nonsupervisory staff specialist, professional employee, administrative officer or assistant, skilled technician or expert. (NOTE: Many companies assign stenographers, rather than secretaries as described above, to this level of supervisory or nonsupervisory worker.)

LS-2

a. Secretary to an executive or managerial person whose responsibility is not equivalent to one of the specific level situations in the definition for LS-3, but whose organizational unit normally numbers at least several dozen employees and is usually divided into organizational segments which are often, in turn, further subdivided. In some companies, this level includes a wide range of organizational echelons; in others, only one or two; or
b. Secretary to the head of an individual plant, factory, etc., (or other equivalent level of official) that employs, in all, fewer than 5,000 persons.

LS-3

a. Secretary to the chairman of the board or president of a company that employs, in all, fewer than 100 persons; or
b. Secretary to a corporate officer (other than chairman of the board or president) of a company that employs, in all, over 100 but fewer than 5,000 persons; or
c. Secretary to the head (immediately below the officer level) over either a major corporatewide functional activity (e.g., marketing, research, operations, industrial relations, etc.) or a major geographic or organizational segment (e.g., a regional headquarters; a major division) of a company that employs, in all, over 5,000 but fewer than 25,000 employees; or
d. Secretary to the head of an individual plant, factory, etc., (or other equivalent level of official) that employs, in all, over 5,000 persons; or
e. Secretary to the head of a large and important organizational segment (e.g., a middle management supervisor of an organizational segment often involving as many as several hundred persons) of a company that employs, in all, over 25,000 persons.

LS-4

a. Secretary to the chairman of the board or president of a company that employs, in all, over 100 but fewer than 5,000 persons; or
b. Secretary to a corporate officer (other than the chairman of the board or president) of a company that employs, in all, over 5,000 but fewer than 25,000 persons; or
c. Secretary to the head, immediately below the corporate officer level, of a major segment or subsidiary of a company that employs, in all, over 25,000 persons.

NOTE: The term "corporate officer" used in the above LS definition refers to those officials who have a significant corporatewide policymaking role with regard to major company activities. The title "vice president," though normally indicative of this role, does not in all cases identify such positions. Vice presidents whose primary responsibility is to act personally on individual cases or transactions (e.g., approve or deny individual loan or credit actions; administer individual trust accounts; directly supervise a clerical staff) are not considered to be "corporate officers" for purposes of applying the definition.

Level of Secretary's Responsibility (LR)

This factor evaluates the nature of the work relationship between the secretary and the supervisor, and the extent to which the secretary is expected to exercise initiative and judgment. Secretaries should be matched at LR-1 or LR-2 described below according to their level of responsibility.

LR-1

Performs varied secretarial duties including or comparable to most of the following:

a. Answers telephones, greets personal callers, and opens incoming mail.
b. Answers telephone requests which have standard answers. May reply to requests by sending a form letter.
c. Reviews correspondence, memoranda, and reports prepared by others for the supervisor's signature to ensure procedural and typographical accuracy.
d. Maintains supervisor's calendar and makes appointments as instructed.
e. Types, takes and transcribes dictation, and files.

LR-2

Performs duties described under LR-1 and, *in addition* performs tasks requiring greater judgment, initiative, and knowledge of office functions including or comparable to most of the following:

a. Screens telephone and personal callers, determining which can be handled by the supervisor's subordinates or other offices.
b. Answers requests which require a detailed knowledge of office procedures or collection of information from files or other offices. *May* sign routine correspondence in own or supervisor's name.
c. Compiles or assists in compiling periodic reports on the basis of general instructions.
d. Schedules tentative appointments without prior clearance. Assembles necessary background material for scheduled meetings. Makes arrangements for meetings and conferences.

e. Explains supervisor's requirements to other employees in supervisor's unit. (Also types, takes dictation, and files.)

The following tabulation shows the level of the secretary for each LS and LR combination:

	LR-1	*LR-2*
LS-1	I	II
LS-2	II	III
LS-3	III	IV
LS-4	IV	V

STENOGRAPHER

(4623: Stenographer)

Primary duty is to take dictation using shorthand, and to transcribe the dictation. May also type from written copy. May operate from a stenographic pool. May occasionally transcribe from voice recordings. (If primary duty is transcribing from recordings, see Transcribing-machine typist.)

NOTE: This job is distinguished from that of a secretary in that a secretary normally works as the principal office assistant performing more responsible and discretionary tasks.

Stenographer I.

Takes and transcribes dictation under close supervision and detailed instructions. May maintain files, keep simple records, or perform other relatively routine clerical tasks.

Stenographer II.

Takes and transcribes dictation determining the most appropriate format. Performs stenographic duties requiring significantly greater independence and responsibility than Stenographer I. Supervisor typically provides general instructions. Work requires a thorough working knowledge of general business and office procedures and of the specific business operations, organizations, policies, procedures, files, workflow, etc. Uses this knowledge in performing stenographic duties and responsible clerical tasks such as maintaining follow-up files; assembling material for reports, memoranda, and letters; composing simple letters from general instructions; reading and routing incoming mail; answering routine questions, etc.

TRANSCRIBING-MACHINE TYPIST

(4623: Stenographer)

Primary duty is to type copy of voice recorded dictation which does *not* involve varied technical or specialized vocabulary such as that used in legal briefs or reports on scientific research. May also type from written copy. May maintain files, keep simple records, or perform other relatively routine clerical tasks. (See Stenographer definition for workers involved with shorthand dictation.)

TYPIST

(4624: Typist)

Uses a manual, electric, or automatic typewriter to type various materials. Included are automatic typewriters that are used only to record text and update and reproduce previously typed items from magnetic cards or tape. May include typing of stencils, mats, or similar materials for use in duplicating processes. May do clerical work involving little special training, such as keeping simple records, filing records and reports, or sorting and distributing incoming mail.

Excluded from this definition is work that involves:

a. Typing directly from spoken material that has been recorded on disks, cylinders, belts, tapes, or other similar media;
b. The use of varitype machines, composing equipment, or automatic equipment in preparing material for printing; and
c. Familiarity with specialized terminology in various keyboard commands to manipulate or edit the recorded text to accomplish revisions, or to perform tasks such as extracting and listing items from the text, or transmitting text to other terminals, or using "sort" commands to have the machine reorder material. Typically requires the use of automatic equipment which may be either computer linked or have a programmable memory so that material can be organized in regularly used formats or preformed paragraphs which can then be coded and stored for future use in letters or documents.

Typist I

Performs *one or more of the following:* Copy typing from rough or clear drafts; or routine typing of forms, insurance policies, etc.; or setting up simple standard tabulations; or copying more complex tables already set up and spaced properly.

Typist II

Performs *one or more of the following:* Typing material in final form when it involves combining material from several sources; or responsibility for correct spelling, syllabication, punctuation, etc., of technical or unusual words or foreign language material; or planning layout and typing of complicated statistical tables to maintain uniformity and balance in spacing. May type routine form letters, varying details to suit circumstances.

FILE CLERK

(4696: File clerk)

Files, classifies, and retrieves material in an established filing system. May perform clerical and manual tasks required to maintain files. Positions are classified into levels on the basis of the following definitions:

File Clerk I

Performs routine filing of material that has already been classified or which is easily classified in a simple serial classification system (e.g., alphabetical, chronological, or numerical). As requested, locates readily available material in files and forwards material; and may fill out withdrawal charge. May perform simple clerical and manual tasks required to maintain and service files.

File Clerk II

Sorts, codes, and files unclassified material by simple (subject matter) headings or partly classified material by finer subheadings. Prepares simple related index and cross-reference aids. As requested, locates clearly identified material in files and forwards material. May perform related clerical tasks required to maintain and service files.

File Clerk III

Classifies and indexes file material such as correspondence, reports, technical documents, etc., in an established filing system containing a number of varied subject matter files. May also file this material. May keep records of various types in conjunction with the files. May lead a small group of lower level file clerks.

MESSENGER

(4745: Messenger)

Performs various routine duties such as running errands, operating minor office machines such as sealers or mailers, opening and distributing mail, and other minor clerical work. Exclude positions that require operation of a motor vehicle as a significant duty.

SWITCHBOARD OPERATOR

(4732: Telephone operator)

Operates a telephone switchboard or console used with a private branch exchange (PBX) system to relay incoming, outgoing, and intrasystem calls. May provide information to callers, record and transmit messages, keep record of calls placed and toll charges. Besides operating a telephone switchboard or console, *may* also type or perform routine clerical work (typing or routine clerical work may occupy the major portion of the worker's time, and is usually performed while at the switchboard or console). Chief or lead operators in establishments employing more than one operator are excluded. For an operator who also acts as a receptionist, see Switchboard operator-receptionist.

SWITCHBOARD OPERATOR-RECEPTIONIST

(4645: Receptionist)

At a single-position telephone switchboard or console, acts both as an operator—see Switchboard operator—and as a receptionist. Receptionist's work involves such duties as greeting visitors; determining nature of visitor's business and providing appropriate information; referring visitor to appropriate person in the organization or contacting that person by telephone and arranging an appointment; keeping a log of visitors.

ORDER CLERK

(4664: Order clerk)

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgment of receipt of order; following up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order.

Exclude workers paid on a commission basis or whose duties include any of the following: Receiving orders for services rather than for material or merchandise; providing customers with consultative advice using knowledge gained from engineering or extensive technical training; emphasizing selling skills; handling material or merchandise as an integral part of the job.

Positions are classified into levels according to the following definitions:

Order Clerk I

Handles orders involving items which have readily identified uses and applications. May refer to a catalog, manufacturer's manual, or similar document to insure that proper item is supplied or to verify price of ordered item.

Order Clerk II

Handles orders that involve making judgments such as choosing which specific product or material from the establishment's product lines will satisfy the customer's needs, or determining the price to be quoted when pricing involves more than merely referring to a price list or making some simple mathematical calculations.

ACCOUNTING CLERK

(4712: Bookkeeper and accounting and auditing clerk)

Performs one or more accounting tasks such as posting to registers and ledgers; balancing and reconciling accounts; verifying the internal consistency, completeness, and mathematical accuracy of accounting documents; assigning prescribed accounting distribution codes; examining and verifying the clerical accuracy of various types of reports, lists, calculations, postings, etc.; preparing journal vouchers; or making entries or adjustments to accounts.

Levels I and II require a basic knowledge of routine clerical methods and office practices and procedures as they relate to the clerical processing and recording of transactions and accounting information. Levels III and IV *require* a knowledge and understanding of the established and standardized bookkeeping and accounting procedures and techniques used in an accounting system, or a segment of an accounting system, where there are few variations in the types of transactions handled. In addition, some jobs at each level may require a basic knowledge and understanding of the terminology, codes, and processes used in an automated accounting system.

Accounting Clerk I

Performs very simple and routine accounting clerical operations, for example, recognizing and comparing easily identified numbers and codes on similar and repetitive accounting documents, verifying mathematical accuracy, and identifying discrepancies and bringing them to the supervisor's attention. Supervisor gives clear and detailed instructions for specific assignments. Employee refers to supervisor all matters not covered by instructions. Work is closely controlled and reviewed in detail for accuracy, adequacy, and adherence to instructions.

Accounting Clerk II

Performs one or more routine accounting clerical operations, such as: Examining, verifying, and correcting accounting transactions to ensure completeness and accuracy of data and proper identification of accounts, and checking that expenditures will not exceed obligations in specified accounts; totaling, balancing, and reconciling collection vouchers; posting data to transaction sheets where employee identifies proper accounts

and items to be posted; and coding documents in accordance with a chart (listing) of accounts. Employee follows specific and detailed accounting procedures. Completed work is reviewed for accuracy and compliance with procedures.

Accounting Clerk III

Uses a knowledge of double entry bookkeeping in performing one or more of the following: Posts actions to journals, identifying subsidiary accounts affected and debit and credit entries to be made and assigning proper codes; reviews computer printouts against manually maintained journals, detecting and correcting erroneous postings, and preparing documents to adjust accounting classifications and other data; or reviews lists of transactions rejected by an automated system, determining reasons for rejections, and preparing necessary correcting material. On routine assignments, employee selects and applies established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used are reviewed for technical accuracy.

Accounting Clerk IV

Maintains journals or subsidiary ledgers of an accounting system and balances and reconciles accounts. Typical duties include one or both of the following: Reviews invoices and statements (verifying information, ensuring sufficient funds have been obligated, and if questionable, resolving with the submitting unit, determining accounts involved, coding transactions, and processing material through data processing for application in the accounting system); and/or analyzes and reconciles computer printouts with operating unit reports (contacting units and researching causes of discrepancies, and taking action to ensure that accounts balance). Employee resolves problems in recurring assignments in accordance with previous training and experience. Supervisor provides suggestions for handling unusual or nonrecurring transactions. Conformance with requirements and technical soundness of completed work are reviewed by the supervisor or are controlled by mechanisms built into the accounting system.

NOTE: Excluded from level IV are positions responsible for maintaining either a general ledger or a general ledger in combination with subsidiary accounts.

PAYROLL CLERK

(4713: Payroll and timekeeping clerk)

Performs the clerical tasks necessary to process payrolls and to maintain payroll records. Work involves *most of the following*: Processing workers' time or production records; adjusting workers' records for changes in wage rates, supplementary benefits, or tax deductions; editing payroll listings against source records; tracing and correcting errors in listings; and assisting in preparation of periodic summary payroll reports. In a nonautomated payroll system, computes wages. Work may require a practical knowledge of governmental regulations, company payroll policy, or the computer system for processing payrolls.

KEY ENTRY OPERATOR

(4793. Data entry keyer)

Operates keyboard-controlled data entry device such as keypunch machine or key-operated magnetic tape or disk encoder to transcribe data into a form suitable for computer processing. Work requires skill in operating an alphanumeric keyboard and an understanding of transcribing procedures and relevant data entry equipment.

Positions are classified into levels on the basis of the following definitions:

Key Entry Operator I

Work is routine and repetitive. Under close supervision or following specific procedures or detailed instructions, works from various standardized source documents which have been coded and require little or no selecting, coding, or interpreting of data to be entered. Refers to supervisor problems arising from erroneous items, codes, or missing information.

Key Entry Operator II

Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be entered from a variety of source documents. On occasion may also perform routine work as described for level I.

NOTE: Excluded are operators above level II using the key entry controls to access, read, and evaluate the substance of specific records to take substantive actions, or to make entries requiring a similar level of knowledge.

Professional and Technical

COMPUTER SYSTEMS ANALYST, BUSINESS

(1712: Computer systems analyst)

Analyzes business problems to formulate procedures for solving them by use of electronic data processing equipment. Develops a complete description of all specifications needed to enable programmers to prepare required digital computer programs. Work involves *most of the following*: Analyzes subject-matter operations to be automated and identifies conditions and criteria required to achieve satisfactory results; specifies number and types of records, files, and documents to be used; outlines actions to be performed by personnel and computers in sufficient detail for presentation to management and for programming (typically this involves preparation of work and data flow charts); coordinates the development of test problems and participates in trial runs of new and revised systems; and recommends equipment changes to obtain more effective overall operations. (NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.)

Does not include employees primarily responsible for the management or supervision of other electronic data processing employees, or systems analysts primarily concerned with scientific or engineering problems.

For wage study purposes, systems analysts are classified as follows:

Computer Systems Analyst I

Works under immediate supervision, carrying out analyses as assigned, usually of a single activity. Assignments are designed to develop and expand practical experience in the application of procedures and skills required for systems analysis work. For example, may assist a higher level systems analyst by preparing the detailed specifications required by programmers from information developed by the higher level analyst.

Computer Systems Analyst II

Works independently or under only general direction on problems that are relatively uncomplicated to analyze, plan, program, and operate. Problems are of limited complexity because sources of input data are homogeneous and the output data are closely related. (For example, develops systems for maintaining depositor accounts in a bank, maintaining accounts receivable in a retail establishment, or maintaining inventory accounts in a manufacturing or wholesale establishment.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of the data processing systems to be applied. *OR*

Works on a segment of a complex data processing scheme or system, as described for level III. Works independently on routine assignments and receives instruction and guidance on complex assignments. Work is reviewed for accuracy of judgment, compliance with instructions, and to insure proper alignment with the overall system.

Computer Systems Analyst III

Works independently or under only general direction on complex problems involving all phases of systems analysis. Problems are complex because of diverse sources of input data and multiple-use requirements of output data. (For example, develops an integrated production scheduling, inventory control, cost analysis, and sales analysis record in which every item of each type is automatically processed through the full system of records and appropriate follow-up actions are initiated by the computer.) Confers with persons concerned to determine the data processing problems and advises subject-matter personnel on the implications of new or revised systems of data processing operations. Makes recommendations, if needed, for approval of major systems installations or changes and for obtaining equipment.

May provide functional direction to lower level systems analysts who are assigned to assist.

COMPUTER PROGRAMMER, BUSINESS

(3971: Programmer, business)

Converts statements of business problems, typically prepared by a systems analyst, into a sequence of detailed instructions which are required to solve the problems by automatic data processing equipment. Working from charts or diagrams, the programmer develops the precise instructions which, when entered into the computer system in coded language, cause the manipulation of data to achieve desired results. Work involves *most of the following*: Applies knowledge of computer capabilities, mathematics, logic employed by computers, and particular subject matter involved to analyze charts and diagrams of the problem to be programmed; develops sequence of program steps; writes detailed flow charts to show order in which data will be processed; converts these charts to coded instructions for machine to follow; tests and corrects programs; prepares instructions for operating personnel during production run; analyzes, reviews, and alters programs to increase operating efficiency or adapt to new requirements; maintains records of program development and revisions. (NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.)

Does not include employees primarily responsible for the management or supervision of other electronic data processing employees, or programmers primarily concerned with scientific and/or engineering problems.

For wage study purposes, programmers are classified as follows:

Computer Programmer I

Makes practical applications of programming practices and concepts usually learned in formal training courses. Assignments are designed to develop competence in the application of standard procedures to routine problems. Receives close supervision on new aspects of assignments; and work is reviewed to verify its accuracy and conformance with required procedures.

Computer Programmer II

Works independently or under only general direction on relatively simple programs, or on simple segments of complex programs. Programs (or segments) usually process information to produce data in two or three varied sequences or formats. Reports and listings are produced by refining, adapting, arraying, or making minor additions to or deletions from input data which are readily available. While numerous records may be processed, the data have been refined in prior actions so that the accuracy and sequencing of data can be tested by using a few routine checks. Typically, the program deals with routine recordkeeping operations. *OR*

Works on complex programs (as described for level III) under close direction of a higher level programmer or supervisor. May assist higher level programmer by independently performing less difficult tasks assigned, and performing more difficult tasks under fairly close direction.

May guide or instruct lower level programmers.

Computer Programmer III

Works independently or under only general direction on complex problems which require competence in all phases of programming concepts and practices. Working from diagrams and charts which identify the nature of desired results, major processing steps to be accomplished, and the relationships between various steps of the problem solving routine; plans the full range of programming actions needed to efficiently utilize the computer system in achieving desired end products.

At this level, programming is difficult because computer equipment must be organized to produce several interrelated but diverse products from numerous and diverse data elements. A wide variety and extensive number of internal processing actions must occur. This requires such actions as development of common operations which can be reused, establishment of linkage points between operations, adjustments to data when program requirements exceed computer storage capacity, and substantial manipulation and resequencing of data elements to form a highly integrated program.

May provide functional direction to lower level programmers who are assigned to assist.

COMPUTER OPERATOR

(4612: Computer operator)

In accordance with operating instructions, monitors and operates the control console of a digital computer to process data. Executes runs by either serial processing (processes one program at a time) or multiprocessing (processes two or more programs simultaneously). The following duties characterize the work of a computer operator:

a. Studies operating instructions to determine equipment setup needed.
b. Loads equipment with required items (tapes, cards, disks, paper, etc.).
c. Switches necessary auxiliary equipment into system.
d. Starts and operates computer.

e. Responds to operating and computer output instructions.
f. Reviews error messages and makes corrections during operation *or* refers problems.
g. Maintains operating record.

May test-run new or modified programs. May assist in modifying systems or programs. The scope of this definition includes trainees working to become fully qualified computer operators, fully qualified computer operator, and lead operators providing technical assistance to lower level operators. It excludes workers who monitor and operate remote terminals.

For wage study purposes, computer operators are classified as follows:

Computer Operator I

Work assignments are limited to established production runs (i.e., programs which present few operating problems). Assignments may consist primarily of on-the-job training (sometimes augmented by classroom instruction). When learning to run programs, the supervisor or a higher level operator provides detailed written or oral guidance to the operator before and during the run. After the operator has gained experience with a program, however, the operator works fairly independently in applying standard operating or corrective procedures in responding to computer output instructions or error conditions, but refers problems to a higher level operator or the supervisor when standard procedures fail.

Computer Operator II

In addition to established production runs, work assignments include runs involving new programs, applications, and procedures (i.e., situations which require the operator to adapt to a variety of problems). At this level, the operator has the training and experience to work fairly independently in carrying out most assignments. Assignments may require the operator to select from a variety of standard setup and operating procedures. In responding to computer output instructions or error conditions, applies standard operating or corrective procedures, but may deviate from standard procedures when standard procedures fail if deviation does not materially alter the computer unit's production plans. Refers the problem or aborts the program when procedures applied do not provide a solution. May guide lower level operators.

Computer Operator III

In addition to work assignments described for Computer operator II (see above) the work of Computer operator III involves at least one of the following:

a. Deviates from standard procedures to avoid the loss of information or to conserve computer time even though the procedures applied materially alter the computer unit's production plans.
b. Tests new programs, applications, and procedures.
c. Advises programmers and subject-matter experts on setup techniques.
d. Assists in (1) maintaining, modifying, and developing operating systems or programs; (2) developing operating instructions and techniques to cover problem situations; and/or (3) switching to emergency backup procedures (such assistance requires a working knowledge of program language, computer features, and software systems).

An operator at this level typically guides lower level operators.

PERIPHERAL EQUIPMENT OPERATOR

(4613: Peripheral equipment operator)

Operates peripheral equipment which directly supports digital computer operations. Such equipment is uniquely and specifically designed for computer applications, but need not be physically or electronically connected to a computer. Printers, plotters, card read/punches, tape readers, tape units or drives, disk units or drives, and data display units are examples of such equipment.

The following duties characterize the work of a peripheral equipment operator:

a. Loading printers and plotters with correct paper; adjusting controls for forms, thickness, tension, printing density, and location; and unloading hard copy.
b. Labeling tape reels, disks, or card decks.
c. Checking labels and mounting and dismounting designated tape reels or disks on specified units or drives.
d. Setting controls which regulate operation of the equipment.
e. Observing panel lights for warnings and error indications and taking appropriate action.
f. Examining tapes, cards, or other material for creases, tears, or other defects which could cause processing problems.

This classification excludes workers (1) who monitor and operate a control console (see Computer operator) or a remote terminal, or (2) whose duties are limited to operating decollaters, bursters, separators, or similar equipment.

COMPUTER DATA LIBRARIAN

(4696: File clerk)
(4754: Stock and inventory clerk)

Maintains library of media (tapes, disks, cards, cassettes) used for automatic data processing applications. The following or similar duties characterize the work of a computer data librarian: Classifying, cataloging, and storing media in accordance with a standardized system; upon proper requests, releasing media for processing; maintaining records of releases and returns; inspecting returned media for damage or excessive wear to determine whether or not they need replacing. May perform minor repairs to damaged tapes.

DRAFTER

(372: Drafting occupation)

Performs drafting work requiring knowledge and skill in drafting methods, procedures, and techniques. Prepares drawings of structures, mechanical and electrical equipment, piping and duct systems and other similar equipment, systems, and

assemblies. Uses recognized systems of symbols, legends, shadings, and lines having specific meanings in drawings. Drawings are used to communicate engineering ideas, designs, and information in support of engineering functions.

The following are excluded when they constitute the primary purpose of the job:

a. Design work requiring the technical knowledge, skill, and ability to conceive or originate designs;
b. Illustrating work requiring artistic ability;
c. Work involving the preparation of charts, diagrams, room arrangements, floor plans, etc.;
d. Cartographic work involving the preparation of maps or plats and related materials, and drawings of geological structures; and
e. Supervisory work involving the management of a drafting program or the supervision of drafters.

Positions are classified into levels on the basis of the following definitions.

Drafter I

Working under close supervision, traces or copies finished drawings, making clearly indicated revisions. Uses appropriate templates to draw curved lines. Assignments are designed to develop increasing skill in various drafting techniques. Work is spot-checked during progress and reviewed upon completion.

NOTE: Exclude drafters performing elementary tasks while receiving training in the most basic drafting methods.

Drafter II

Prepares drawings of simple, easily visualized parts of equipment from sketches or marked-up prints. Selects appropriate templates and other equipment needed to complete assignments. Drawings fit familiar patterns and present few technical problems. Supervisor provides detailed instructions on new assignments, gives guidance when questions arise, and reviews completed work for accuracy.

Drafter III

Prepares various drawings of parts and assemblies, including sectional profiles, irregular or reverse curves, hidden lines, and small or intricate details. Work requires use of most of the conventional drafting techniques and a working knowledge of the terms and procedures of the industry. Familiar or recurring work is assigned in general terms; unfamiliar assignments include information on methods, procedures, sources of information, and precedents to be followed. Simple revisions to existing drawings may be assigned with a verbal explanation of the desired results; more complex revisions are produced from sketches which clearly depict the desired product.

Drafter IV

Prepares complete sets of complex drawings which include multiple views, detail drawings, and assembly drawings. Drawings include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to compute weights, load capacities, dimensions, quantities of materials, etc. Working from sketches and verbal information supplied by an engineer or designer, determines the most appropriate views, detail drawings, and supplementary information needed to complete assignments. Selects required information from precedents, manufacturers' catalogs, and technical guides. Independently resolves most of the problems encountered. Supervisor or designer may suggest methods of approach or provide advice on unusually difficult problems.

NOTE: Exclude drafters performing work of similar difficulty to that described at this level but who provide support for a variety of organizations which have widely differing functions or requirements.

Drafter V

Works closely with design originators, preparing drawings of unusual, complex or original designs which require a high degree of precision. Performs unusually difficult assignments requiring considerable initiative, resourcefulness, and drafting expertise. Assures that anticipated problems in manufacture, assembly, installation, and operation are resolved by the drawings produced. Exercises independent judgment in selecting and interpreting data based on a knowledge of the design intent. Although working primarily as a drafter, may occasionally perform engineering design work in interpreting general designs prepared by others or in completing missing design details. May provide advice and guidance to lower level drafters or serve as coordinator and planner for large and complex drafting projects.

ELECTRONICS TECHNICIAN

(3711: Electrical and electronic engineering technologist and technician)
(615: Electrical and electronic equipment repairer)

Works on various types of electronic equipment and related devices by performing one or a combination of the following: Installing, maintaining, repairing, overhauling, troubleshooting, modifying, constructing, and testing. Work requires practical application of technical knowledge of electronics principles, ability to determine malfunctions, and skill to put equipment in required operating condition.

The equipment—consisting of either many different kinds of circuits or multiple repetition of the same kind of circuit—includes, but is not limited to, the following: (a) Electronic transmitting and receiving equipment (e.g., radar, radio, television, telephone, sonar, navigational aids), (b) digital and analog computers, and (c) industrial and medical measuring and controlling equipment.

This classification excludes repairers of such standard electronic equipment as common office machines and household radio and television sets; production assemblers and testers; workers whose primary duty is servicing electronic test instruments; technicians who have administrative or supervisory responsibility; and drafters, designers, and professional engineers.

Positions are classified into levels on the basis of the following definitions:

Electronics Technician I

Applies working technical knowledge to perform simple or routine tasks in working on electronic equipment, following detailed instructions which cover virtually all procedures. Work typically involves such tasks as: Assisting higher level technicians by performing such activities as replacing components, wiring circuits, and taking test

readings; repairing simple electronic equipment; and using tools and common test instruments (e.g., multimeters, audio signal generators, tube testers, oscilloscopes). Is not required to be familiar with the interrelationships of circuits. This knowledge, however, may be acquired through assignments designed to increase competence (including classroom training) so that worker can advance to higher level technician.

Receives technical guidance, as required, from supervisor or higher level technician. Work is typically spot-checked, but is given detailed review when new or advanced assignments are involved.

Electronics Technician II

Applies comprehensive technical knowledge to solve complex problems (i.e., those that typically *can* be solved solely by properly interpreting manufacturers' manuals or similar documents) in working on electronic equipment. Work involves: A familiarity with the interrelationships of circuits; and judgment in determining work sequence and in selecting tools and testing instruments, usually less complex than those used by the level III technician.

Receives technical guidance, as required, from supervisor or higher level technician, and work is reviewed for specific compliance with accepted practices and work assignments. May provide technical guidance to lower level technicians.

Electronics Technician III

Applies advanced technical knowledge to solve unusually complex problems (i.e., those that typically *cannot* be solved solely by reference to manufacturers' manuals or similar documents) in working on electronic equipment. Examples of such problems include location and density of circuitry, electromagnetic radiation, isolating malfunctions, and frequent engineering changes. Work involves: A detailed understanding of the interrelationships of circuits; exercising independent judgment in performing such tasks as making circuit analyses, calculating wave forms, tracing relationships in signal flow; and regularly using complex test instruments (e.g., dual trace oscilloscopes, Q-meters, deviation meters, pulse generators).

Work may be reviewed by supervisor (frequently an engineer or designer) for general compliance with accepted practices. May provide technical guidance to lower level technicians.

REGISTERED INDUSTRIAL NURSE

(29: Registered nurse)

A registered nurse gives nursing service under general medical direction to ill or injured employees or other persons who become ill or suffer an accident on the premises of a factory or other establishment. Duties involve *a combination of the following*: Giving first aid to the ill or injured; attending to subsequent dressing of employees' injuries; keeping records of patients treated; preparing accident reports for compensation or other purposes; assisting in physical examinations and health evaluations of applicants and employees; and planning and carrying out programs involving health education, accident prevention, evaluation of plant environment, or other activities affecting the health, welfare, and safety of all personnel. Nursing supervisors or head nurses in establishments employing more than one nurse are excluded.

Maintenance, Toolroom, and Powerplant

MAINTENANCE CARPENTER

(6422: Carpenter)

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves *most of the following*: Planning and laying out of work from blueprints, drawings, models, or verbal instructions; using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE ELECTRICIAN

(615: Electrical and electronic equipment repairer)
(6432: Electrician)

Performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy in an establishment. Work involves *most of the following*: Installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications; locating and diagnosing trouble in the electrical system or equipment; working standard computations relating to load requirements of wiring or electrical equipment; and using a variety of electrician's handtools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE PAINTER

(6442: Painter, construction and maintenance)

Paints and redecorates walls, woodwork, and fixtures of an establishment. Work *involves the following*: Knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead, and other paint ingredients to obtain proper color or consistency. In general, the work of the maintenance painter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MACHINIST

(613: Industrial machinery repairer)

Produces replacement parts and new parts in making repairs of metal parts of mechanical equipment operated in an establishment. Work involves *most of the following*: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common

metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MECHANIC (MACHINERY)

(613: Industrial machinery repairer)

Repairs machinery or mechanical equipment of an establishment. Work involves *most of the following*: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines; and making all necessary adjustments for operation. In general, the work of a machinery maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose *primary duties* involve setting up or adjusting machines.

MAINTENANCE MECHANIC (MOTOR VEHICLE)

(611: Vehicle and mobile equipment mechanic and repairer)

Repairs automobiles, buses, motortrucks, and tractors of an establishment. Work involves *most of the following*: Examining automotive equipment to diagnose source of trouble; disassembling equipment and performing repairs that involve the use of such handtools as wrenches, gauges, drills, or specialized equipment in disassembling or fitting parts; replacing broken or defective parts from stock; grinding and adjusting valves; reassembling and installing the various assemblies in the vehicle and making necessary adjustments; and aligning wheels, adjusting brakes and lights, or tightening body bolts. In general, the work of the motor vehicle maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

This classification does not include mechanics who repair customers' vehicles in automobile repair shops.

MAINTENANCE PIPEFITTER

(645: Plumber, pipefitter, and steamfitter)

Installs or repairs water, steam, gas, or other types of pipe and pipefittings in an establishment. Work involves *most of the following*: Laying out work and measuring to locate position of pipe from drawings or other written specifications; cutting various sizes of pipe to correct lengths with chisel and hammer or oxyacetylene torch or pipe-cutting machines; threading pipe with stocks and dies; bending pipe by hand-driven or power-driven machines; assembling pipe with couplings and fastening pipe to hangers; making standard shop computations relating to pressures, flow, and size of pipe required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the maintenance pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. *Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.*

MAINTENANCE SHEET-METAL WORKER

(6824: Sheet metal worker)

Fabricates, installs, and maintains in good repair the sheet-metal equipment and fixtures (such as machine guards, grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves *most of the following:* Planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications; setting up and operating all available types of sheet-metal working machines; using a variety of handtools in cutting, bending, forming, shaping, fitting, and assembling; and installing sheet-metal articles as required. In general, the work of the maintenance sheet-metal worker requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MILLWRIGHT

(6178: Millwright)

Installs new machines or heavy equipment, and dismantles and installs machines or heavy equipment when changes in the plant layout are required. Work involves *most of the following*: Planning and laying out work; interpreting blueprints or other specifications; using a variety of handtools and rigging; making standard shop computations relating to stresses, strength of materials, and centers of gravity; aligning and balancing equipment; selecting standard tools, equipment, and parts to be used; and installing and maintaining in good order power transmission equipment such as drives and speed reducers. In general, the millwright's work normally requires a rounded training and experience in the trade acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE TRADES HELPER

(863: Helper; mechanic and repairer)

(864: Helper; construction trades)

Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, such as keeping a worker supplied with materials and tools; cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade: In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others he is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

MACHINE-TOOL OPERATOR (TOOLROOM)

(6813: Machinist)

(731-2: Metalworking and plastic working machine setup operator)

Specializes in operating one or more than one type of machine tool (e.g., jig borer, grinding machine, engine lathe, milling machine) to machine metal for use in making or maintaining jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: Planning and performing difficult machining operations which require complicated setups or a high degree of accuracy; setting up machine tool or tools (e.g., install cutting tools and adjust guides, stops, working tables, and other controls to

handle the size of stock to be machined; determine proper feeds, speeds, tooling, and operation sequence or select those prescribed in drawings, blueprints, or layouts); using a variety of precision measuring instruments; making necessary adjustments during machining operation to achieve requisite dimensions to very close tolerances. May be required to select proper coolants and cutting and lubricating oils, to recognize when tools need dressing, and to dress tools. In general, the work of a machine-tool operator (toolroom) at the skill level called for in this classification requires extensive knowledge of machine-shop and toolroom practice usually acquired through considerable on-the-job training and experience.

For cross-industry wage study purposes, this classification does *not* include machine-tool operators (toolroom) employed in tool and die jobbing shops.

TOOL AND DIE MAKER

(6811: Tool and die maker)

Constructs and repairs jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: Planning and laying out work according to models, blueprints, drawings, or other written or oral specifications; understanding the working properties of common metals and alloys; selecting appropriate materials, tools, and processes required to complete task; making necessary shop computations; setting up and operating various machine tools and related equipment; using various tool and die maker's handtools and precision measuring instruments; working to very close tolerances; heat-treating metal parts and finished tools and dies to achieve required qualities; fitting and assembling parts to prescribed tolerances and allowances. In general, the tool and die maker's work requires rounded training in machine-shop and toolroom practice usually acquired through formal apprenticeship or equivalent training and experience.

For cross-industry wage study purposes, this classification does *not* include tool and die makers who (1) are employed in tool and die jobbing shops or (2) produce forging dies (die sinkers).

STATIONARY ENGINEER

(6931: Stationary engineer)

Operates and maintains one or more systems which provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high-temperature water, or electricity. Duties involve: Observing and interpreting readings on gauges, meters, and charts which register various aspects of the system's operation; adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs various aspects of the system's operation; keeping the engines, machinery, and equipment of the system in good working order. May direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems.

The classification excludes head or chief engineers in establishments employing more than one engineer; workers required to be skilled in the repair of electronic control equipment; and workers in establishments producing electricity, steam, or heated or cooled air primarily for sale.

BOILER TENDER

(6931: Stationary engineer)
(696: Miscellaneous plant or system operator)

Tends one or more boilers to produce steam or high-temperature water for use in an establishment. Fires boiler. Observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation. Adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high-temperature water. May also do one or more of the following: Maintain a log in which various aspects of boiler operation are recorded; clean, oil, make minor repairs or assist in repairs to boilerroom equipment; and, following prescribed methods, treat boiler water with chemicals and analyze boiler water for such things as acidity, causticity, and alkalinity.

The classification excludes workers in establishments producing electricity, steam, or heated or cooled air primarily for sale.

Material Movement and Custodial

TRUCKDRIVER

(821: Motor vehicle operator)

Drives a truck within a city or industrial area to transport materials, merchandise, equipment, or workers between various types of establishments such as: Manufacturing plants, freight depots, warehouses, wholesale and retail establishments, or between retail establishments and customers' houses or places of business. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. *Salesroute and over-the-road drivers are excluded.*

For wage study purposes, truckdrivers are classified by type and rated capacity of truck, as follows:

Truckdriver, light truck
(straight truck, under 1 1/2 tons, usually 4 wheels)
Truckdriver, medium truck
(straight truck, 1 1/2 to 4 tons inclusive, usually 6 wheels)
Truckdriver, heavy truck
(straight truck, over 4 tons, usually 10 wheels)
Truckdriver, tractor-trailer

SHIPPER AND RECEIVER

(4753: Traffic, shipping and receiving clerk)

Performs *clerical and physical* tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing day-to-day, routine tasks, follows established guidelines. In handling unusual nonroutine problems, receives specific guidance from supervisor or other officials. May direct and coordinate the activities of other workers engaged in handling goods to be shipped or being received.

Shippers typically are responsible for most of the following: Verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles; preparing and keeping records of goods shipped, e.g., manifests, bills of lading.

Receivers typically are responsible for most of the following: Verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records; checking for damaged goods; insuring that goods are appropriately identified for routing to departments within the establishment; preparing and keeping records of goods received.

For wage study purposes, workers are classified as follows:

Shipper
Receiver
Shipper and receiver

WAREHOUSEMAN

(4754: Stock and inventory clerk)

As directed, performs a *variety* of *warehousing* duties which require an *understanding of the establishment's storage plan*. Work involves *most of the following*: Verifying materials (or merchandise) against receiving documents, noting and reporting discrepancies and obvious damages; routing materials to prescribed storage locations; storing, stacking, or palletizing materials in accordance with prescribed storage methods; rearranging and taking inventory of stored materials; examining stored materials and reporting deterioration and damage; removing material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties.

Exclude workers whose *primary* duties involve shipping and receiving work (see Shipper and receiver and Shipping packer), order filling (see Order filler), or operating power trucks (see Power-truck operator).

ORDER FILLER

(4754: Stock and inventory clerk)

Fills shipping or transfer orders for finished goods from stored merchandise in accordance with specifications on sales slips, customers' orders, or other instructions. May, in addition to filling orders and indicating items filled or omitted, keep records of outgoing orders, requisition additional stock or report short supplies to supervisor, and perform other related duties.

SHIPPING PACKER

(8761: Hand packer and packager)

Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations performed being dependent upon the type, size, and number of units to be packed, the type of container employed, and method of shipment. Work requires the placing of items in shipping containers and *may involve one or more of the following*: Knowledge of various items of stock in order to verify content; selection of appropriate type and size of container; inserting enclosures in container; using excelsior or other material to prevent breakage or damage; closing and sealing container; and applying labels or entering identifying data on container. *Packers who also make wooden boxes or crates are excluded.*

MATERIAL HANDLING LABORER

(8726: Freight, stock, and material mover, not elsewhere classified)

A worker employed in a warehouse, manufacturing plant, store, or other establishment whose duties involve *one or more of the following*: Loading and unloading various materials and merchandise on or from freight cars, trucks, or other transporting devices; unpacking, shelving, or placing materials or merchandise in proper storage location; and transporting materials or merchandise by handtruck, car, or wheelbarrow. *Longshore workers, who load and unload ships, are excluded.*

POWER-TRUCK OPERATOR

(8318: Industrial truck and tractor equipment operator)

Operates a manually controlled gasoline- or electric-powered truck or tractor to transport goods and materials of all kinds about a warehouse, manufacturing plant, or other establishment.

For wage study purposes, workers are classified by type of powertruck, as follows:

Forklift operator
Power-truck operator (other than forklift)

GUARD

(5144: Guard and police, except public service)

Protects property from theft or damage, or persons from hazards or interference. Duties involve serving at a fixed post, making rounds on foot or by motor vehicle, or escorting persons or property. May be deputized to make arrests. May also help visitors and customers by answering questions and giving directions.

Guards employed by establishments which provide protective services on a contract basis are included in this occupation.

For wage study purposes, guards are classified as follows:

Guard I

Carries out instructions primarily oriented toward insuring that emergencies and security violations are readily discovered and reported to appropriate authority. Intervenes directly only in situations which require minimal action to safeguard property or persons. Duties require minimal training. Commonly, the guard is not required to demonstrate physical fitness. May be armed, but generally is not required to demonstrate proficiency in the use of firearms or special weapons.

Guard II

Enforces regulations designed to prevent breaches of security. Exercises judgment and uses discretion in dealing with emergencies and security violations encountered. Determines whether first response should be to intervene directly (asking for assistance when deemed necessary and time allows), to keep situation under surveillance, or to report situation so that it can be handled by appropriate authority. Duties require specialized training in methods and techniques of protecting security areas. Commonly,

the guard is required to demonstrate continuing physical fitness and proficiency with firearms or other special weapons.

JANITOR, PORTER, OR CLEANER

(5244: Janitor and cleaner)

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve *a combination of the following*: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms. *Workers who specialize in window washing are excluded.*

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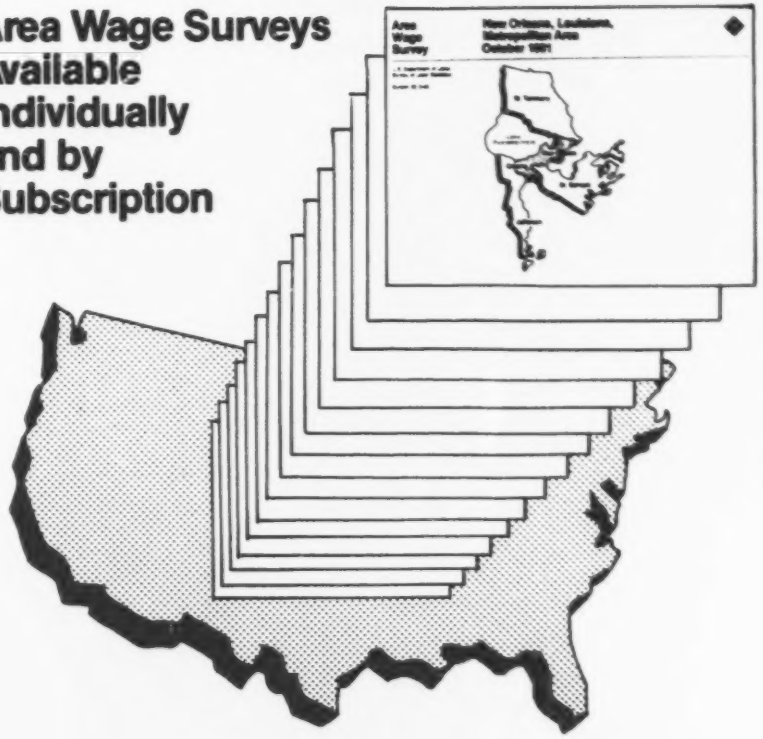

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